

Zoological Record

Vol. 95, Sect. 16B, 1958

REPTILIA

COMPILED BY

J. C. BATTERSBY (Recent) and
W. E. SWINTON, Ph.D. (Fossil)

LONDON

PUBLISHED BY

THE ZOOLOGICAL SOCIETY OF LONDON

PRICE SEVEN SHILLINGS & SIXPENCE

January, 1961

SEPARATE SECTIONS OF THE ZOOLOGICAL RECORD

In addition to the complete bound volume, the separate Sections may be obtained singly, bound in printed paper covers.

The following are the Sections and their prices, viz.:—

	<i>s.</i>	<i>d.</i>
1. Comprehensive Zoology	3	0
2. Protozoa	10	0
3. Porifera	2	0
4. Coelenterata	4	0
5. Echinodermata	4	0
6. Vermes	10	0
7. Brachiopoda	4	0
8. Bryozoa	2	6
9. Mollusca	10	0
10. Crustacea	6	6
11. Trilobita	5	0
12. Arachnida	10	0
*13. Insecta	50	0
14. Protochordata	2	0
15. Pisces	8	6
16A. Amphibia	6	0
16B. Reptilia	7	6
17. Aves	10	0
18. Mammalia	10	0
19. List of New Genera and Subgenera	4	0

* Obtainable only from the Commonwealth Institute of Entomology, 56, Queen's Gate, London, S.W.7.

16B. REPTILIA

COMPILED BY

J. C. BATTERSBY (RECENT)

AND W. E. SWINTON, PH.D. (FOSSIL)

CONTENTS

	PAGE
I. TITLES	2
II. SUBJECT INDEX:—	
General	30
Structure	31
Physiology	33
Reproduction and Sex	34
Development	35
Evolution and Genetics	35
Ecology and Habits	35
Venoms	38
Geographical Distribution	39
Palaeontology and Geological Distribution	42
III. SYSTEMATIC INDEX:—	
General	42
Fossil Orders	43
Crocodylia	43
Squamata	45
Serpentes	61
Testudines	87
Ichnites	93

© Zoological Society of London, 1961.

I.—TITLES.

The year of publication of a title is omitted from the reference where it is the same as the volume year of the 'Record' namely 1958.

Opinion 524. Interpretation of the nominal species "*Coluber ahaetulla*" Linnaeus, 1758, and addition to the "Official List of Generic Names in Zoology" of the generic name "*Ahaetulla*" Link, 1807 with "*Ahaetulla mycterizans*" Link, 1807 as type species (Class Reptilia). Opin. int. Comm. zool. Nom. **19** (11) : 261-276.

Opinion 525. Determination of the relative precedence to be accorded to the names "*Coluber pictus*" Gmelin (J. F.), [1789], and "*Coluber boiga*" Lacépède, 1789 (Class Reptilia). Opin. int. Comm. zool. Nom. **19** (12) : 277-290.

Direction 97. Determination under the Plenary Powers of the specific name to be used for the North American Alligator and of the spelling to be used for that name (Class Reptilia) (*Opinion* supplementary to *Opinion* 92). Opin. int. Comm. zool. Nom. **1 F** (8) : 87-126.

(1) **Anon.** Frilled Lizard [*Chlamydosaurus kingi*]. Turtox News **36** : p. 192 1 pl.

(2) **Anon.** Meine malaiischen Sumpfschildkröten *Malayemys subtrijuga* (Schlegel u. S. Müller). Aquar. Terrar. Z. **11** : 23-25, photograph.

(3) **Anon.** Review of:—Schmidt and Inger, Living Reptiles of the World. Copeia : 157-158.

Ábrahám, A. Die mikroskopische Innervation der Niere des *Varanus griseus* Daud. Z. mikr.-anat. Forsch. **64** : 296-320.

Acharji, M. N. On a collection of chelonians and snakes from Chota Nagpur, Bihar. Rec. Indian Mus. **53** 1955 [1958] : 383-392.

Adams, M. S. & Clark, H. F. A herpetofaunal survey of Long Point, Ontario, Canada. Herpetologica **14** : 8-10.

(1) **Adler, K. K.** On *Pareas laevis*, a member of the subfamily Dipsadinae. Trimon. Rep. Ohio herpet. Soc. **1** (1) : 2, 1 fig.

(2) **Adler, K. K.** Present status of *Eumeces laticeps* (Schneider) in Ohio. Trimon. Rep. Ohio herpet. Soc. **1** (2) : 1.

(3) **Adler, K. K.** Observations on the Australian genera *Egernia* and *Tiliqua* in captivity. Trimon. Rep. Ohio herpet. Soc. **1** (3) : 9-12 1 pl.

(4) **Adler, K. K.** An abnormal *Pseudemys dorbigni* from Brazil. Trimon. Rep. Ohio herpet. Soc. **1** (3) : 13 1 fig.

(5) **Adler, K. K.** Some additional county records and a minimum size for the eastern milk snake in Ohio. Trimon. Rep. Ohio herpet. Soc. **1** (3) : 14.

(6) **Adler, K. K.** Third contribution to the herpetology of Ohio. Trimon. Rep. Ohio herpet. Soc. **1** (4) : 20.

(7) **Adler, K. K.** List of the specimens of Chelonia and Crocodilia preserved in the author's private collection. Spec. Publ., Ohio herpet. Soc. No. **2** : 8-21 3 figs.

(8) **Adler, K. K.** List of the reptilia preserved in the zoological collections of the Museum of Zoology, Ohio Wesleyan University. Ohio Wesleyan Univ. : 1-6.

Ahrenfeldt, R. H. Review of:—Klauber, L. M., Rattlesnakes. Brit. J. Herpet. **2** (6) : 109-110.

Aiura, S., see Murakami, M.

Albahary, C. & Budker, P. Dangers des animaux aquatiques. Encyclopédie Médico-Chirurgicale 16078 C10. Paris pp. 9, text illust.

Alcala, A. C. Notes on the food habits of a Philippine skink: *Dasia smaragdina philippinica* Mertens. Siliman J. **4** 1957 : 180-191.

Alcala, A. C., see Rabor, D. S.

Aleven, I. M. Artis verrijkt met een speciale zaal voor amfibien! Lacerta **16** (11-12) : 80-81.

Alexander, D. R. & Diener, R. A. A collection of amphibians and reptiles from Japan. Copeia : 218-219.

Alfred, E. R., see Hendrickson, J. R.

Allison, P., see Brode, W. E.

Alvarez del Toro, M. & Smith, H. M. Notulae Herpetologicae Chiapasiae II. Herpetologica **14** : 15-17.

Amorose, P. L. Notes on snakes in Ohio. Trimon. Rep. Ohio herpet. Soc. 1 (3) : 14.

Anderson, E. & Beams, H. W. The ultramicroscopic structure of the renal glomerulus of a lizard. Anat. Rec. 131 : 527. [Abstract.]

Anderson, P. K. The photic responses and water-approach behavior of hatching turtles. Copeia : 211-215 5 figs.

Andrews, T. F., see Clarke, R. F.

(1) **Appleby, L. G.** The food of British snakes. Field 211 : 59 1 fig.

(2) **Appleby, L. G.** The length of British snake. Field 212 : 231.

Aramburu, R. H., see Ringuelet, R. A.

Arata, A. A. Notes on the eggs and young of *Gopherus polyphemus* (Daudin). Quart. J. Fla Acad. Sci. 21 : 274-280 3 figs.

Archbold Biological Station. Brochure 3rd Ed. : 1-15 map 8 photographs.

Arnoult, J. Présence de *Testudo hermanni* F. G. Gmelin (Chélonien) en Normandie. Bull. Mus. Hist. nat. Paris (2) 30 : 123-124.

(1) **Arvy, L. & Bonichon, A.** Contribution à l'histoencyzmologie de *Crocodylus niloticus* Laurenti. Z. Zellforsch. 48 : 519-535 20 figs. [Not seen.]

(2) **Arvy, L. & Bonichon, A.** Contribution à l'histoencyzmologie de la glande surrénale chez *Crocodylus niloticus* Laurenti. C.R. Acad. Sci. Paris 246 : 1759-1761 2 figs.

Atland, P. D. & Thompson, E. C. Some factors affecting blood formation in turtles. Proc. Soc. exp. Biol. Med. 99 : 456-459.

Auffenberg, W. The trunk musculature of *Sanzina* and its bearing on certain aspects of the myological evolution of snakes. Breviora No. 82 : pp. 12 4 figs.

Axtell, R. W. A northward range extension for the lizard *Anelytropsis papillosus*, with notes on the distribution and habits of several other Mexican lizards. Herpetologica 14 : 189-191 1 fig.

Badir, N. Seasonal variation of male urogenital organs of *Scincus scincus* L. and *Chalcides ocellatus* Forsk. Z. wiss. Zool. 160 : 290-351 35 figs.

Baer, J. G. Cour d'anatomie comparée des vertébrés. Neuchatel (Griffon) pp. 207 68 pls. col.

Baird, D. Triassic reptile footprint faunules from Milford, New Jersey. Bull. Mus. Comp. Zool. Harv. 117 1957 : 449-520 10 figs. 4 pls.

Baird, D., see Colbert, E. H.

(**Bajanov, V. S.**). [About *Pliosaurus* and *Ichthyosaurus* from the upper Jura of Western Kazakhstan.] Mat. Faun. Flor. Kazak. 2 : 72-79 5 figs. [In Russian.]

Balcells, E. Elementos nordicos en el poblamiento de la cumbre del Montseny. Publ. Inst. Biol. Aplic. 26 1957 : 123-126. [Not seen.]

Ban, F., see Murakami, M.

(**Bannikov, A. G.**) [Data on the fauna and biology of Amphibia and Reptilia in Mongolia.] Bull. Soc. Nat. Moscow biol. 63 2 : 71-92 8 fig. [In Russian with English summary.]

Barash, A., see Hecht, M. K. For review of Reptiles of Israel.

Bargmann, W., Knoop, A. & Thiel, A. Elektronenmikroskopische Studie an der Neurohypophyse von *Tropidonotus natrix*. [Mit Berücksichtigung der Pars intermedia.] Z. Zellforsch. 47 1957 : 114-126. [Not seen.]

Barme, M. Contribution à l'étude des serpents marins venimeux Hydrophiidae du Viet-Nam. Bull. Soc. Path. exot. 51 : 258-265 2 pls.

Barth, R. A faune do Parque Nacional do Itatiaia. Bol. Parq. nac. Itatiaia No. 6 1957 : 1-150 39 figs. 2 maps. [English, etc. summaries.]

Bartholomew, G. A., see Dawson, W. R.

Batchelor, D. M. Some notes on the snakes of Asaban, Malacca. Malay. Nat. J. 12 : 103-112.

Battersby, J. C., see Phillips, W. W. A.

Baudrimont, A. Organisation générale du poumon et structure des alvéoles pulmonaires des vertébrés (amphibiens, reptiles, mammifères) considérés dans leurs rapports avec le mécanisme respiratoire, la circulation pulmonaire fonctionnelle et l'activité métabolique de ces animaux. Arch. d'Anat. d'Hist. et d'Embry. 39 1956 : 97-136. [Not seen.]

Baumann, J. A. Terminaisons nerveuses, imprégnées à l'argent, dans le cœur de Tortue. *Acta anat.* **31** 1957 : 585.

(**Bazhanov, V. S. & Pigulevski, N. A.**) [On some peculiarities in the eye of the Tertiary tortoises, *Testudo kegenika* Khoz.] *Mat. Faun. Flor. Kazak.* **1** 1955 : 87-94 2 figs. pl. [In Russian.]

Beams, H. W., see **Anderson, E.**

Bechtel, H. B. & E. Reproduction in captive corn snakes *Elaphe guttata guttata*. *Copeia* No. 2 : 148-149.

Bechtel, H. B., see **Minton, S. A.**

Beidleman, R. G., see **Maslin, T. P.**

Belbèze, J. Coloration des spermatozoïdes de serpents. *Proc.-Verb. Soc. Sci. nat. Tunis* **1956** 1956 : lii-liii.

Bell, E. L. The food habits of the Pilot black snake, *Elaphe o. obsoleta*, with observations on a captive specimen. *Mengel Nat. Reading Pa.* **2** 1957 : 19-22. [Not seen.]

Bellairs, A. d'A. Review of:—Vogel, Z., *Reptile Life*. *Brit. J. Herpet.* **2** : 135.

Bellairs, A. d'A., see **Vanzolini, P. E.** for review of *Reptiles*, 1957.

Belluomini, H. W., see **Schreiber, G.**

Beltz, R. E. Eating habits of some captive Testudines. *Herpetologica* **13** : 272.

Bender, M. S., see **Guilday, J. E.**

(1) **Benzien, J.** Beobachtungen über die Entwicklung der Zeichnung bei Pantherschildkröten—*Testudo pardalis babcocki* Loveridge. *Aquar. Terrar. Z.* **11** : 121.

(2) **Benzien, J.** Todesursachen bei Chamaeleons. *Aquar. Terrar. Z.* **11** : 189-191.

(1) **Bergman, R. A. M.** The anatomy of *Natrix piscator*. *Biol. Jaarb.* **26** : 77-99 8 figs.

(2) **Bergman, R. A. M.** The anatomy of the Acrochordinae. I-IV. *Proc. Akad. Wet. Amst.* **61C** : 145-184 17 figs.

Bhatnagar, A. N. Spermatogonial chromosomes of two lizards, *Hemidactylus brooki* Grey and *Varanus monitor* Linn. *Curr. Sci.* **27** : 504-505 2 figs.

Bird, C. D. The distribution of the western painted turtle in Manitoba. *Canad. Fld Nat.* **72** : 28-31 1 fig.

Blackwell, K. Distribution of adder. [A correction.] *Brit. J. Herpet.* **2** : 134.

Blair, J. A. & Graham, J. Identity of pterins present in snake skins. *Chem. & Ind.* **1955** : 1158-1159. [Not seen.]

Blair, W. F. Distributional patterns of vertebrates in the Southern United States in relation to past and present environments. *Publ. Amer. Ass. Advanc. Sci.* **51** : 433-468 11 figs.

(2) **Blair, W. F.** Changes in vertebrate populations under conditions of drought. *Cold Spr. Harb. Symp. Quant. Biol.* **22** 1957 : 273-275. [Not seen.]

Blair, W. F., et al., see **Hecht, M. K.** Review of: *Vertebrates of the United States*.

(1) **Bleakney, J. S.** A zoogeographical study of the amphibians and reptiles of eastern Canada. *Bull. nat. Mus. Canada* No. 155 : 1-119 49 maps.

(2) **Bleakney, S.** The significance of turtle bones of archaeological sites in southern Ontario and Quebec. *Canad. Fld Nat.* **72** : 1-5 1 fig.

(3) **Bleakney, S.** Variation in a litter of northern water snakes from Ottawa, Ontario. *Canad. Fld Nat.* **72** : 128-132 3 figs.

(4) **Bleakney, S.** Postglacial dispersal of the turtle *Chrysemys picta*. *Herpetologica* **14** : 101-104 1 fig.

Bleichert, A. & Reichel, H. Über den zeitlichen Ablauf der Aktivierung im Herzmuskel. *Verh. Deutsch Gesell. Kreislaufforschung* **23** 1957 : 356-359. [Not seen.]

Bleichert, A., see **Reichel, H.**

Bodin, J. & Duguy, R. Présence de *Vipera berus* en Grande-Brière (L. Atl.). *Vie et Milieu* **9** : 248-251 map.

(1) **Bogert, C. M.** The lizard with the frightening frill. *Nat. Hist. N.Y.* **66** 1957 : 98-99 2 photographs.

(2) **Bogert, C. M.** The role of the Zoological Curator as a Writer (with some impertinent digressions). *Curator* **3** : 48-63.

Bond, G. A note on Dinosaur remains from the forest sandstone (Upper Karroo). Occ. Pap. nat. Mus. S. Rhod. 2 1955 : 795-800 1 pl.

Bonichon, A., see Arvy, L.

Bons, J. Contribution à l'étude de l'herpétofaune Marocaine (Reptiles de la région d'Ifrane). Bull. Soc. Sci. Nat. Phys. Maroc 38 : 167-182 3 photg. 2 charts. [English summary.]

Bons, J., see Pasteur, G.

(1) **Boo-Liat, L.** The Harlequin Monitor Lizard. Malay. Nat. J. 13 : 70-72 1 pl.

(2) **Boo-Liat, L.** Colour patterns of some Malayan snakes. Malay. Nat. J. 12 : 116-118 figs.

(3) **Boo-Liat, L.** The Indo-Chinese Wolf Snake. Malay. nat. J. 12 : 183-184 fig. photograph.

Booth, K. Development of eggs and young of desert tortoise. Herpetologica 13 : 261-263.

Boquet, P., see Izard, Y.

Bounhiol, J.-J. & Lahargue, J. Nouvelle récolte à Bordeaux d'œufs fécondés de Tortue grecque. P.V. Soc. linn. Bordeaux 96 [1956] : 25-26.

Brain, C. K. Web-footed geckos of the Namib. (*Palmatogecko rangei* Andersson.) Afr. wild Life 12 : 67-70 2 photographs.

Brain, C. K., see Fitzsimons, V. (3), (4).

(1) **Brattstrom, B. H.** More fossil reptiles from Cuba. Herpetologica 13 : 278.

(2) **Brattstrom, B. H.** Additions to the herpetofauna of Cass County, Minnesota. Herpetologica 13 : 278.

(3) **Brattstrom, B. H.** Additions to the Pleistocene herpeto-fauna of Nevada. Herpetologica 14 : 36.

Brattstrom, B. H., see Sturn, A.

Braun, R., see Roth, C.

Bree, P. J. H. van. Notes on the wall-lizard, *Lacerta muralis* (Laurenti) 1768, in the Netherlands. Natuurh. Maandbl. 47 1-2 : 8-11 2 figs.

Brehm, J. J. Bevingingen met hardoenen. Lacerta 16 : 63-64 photograph.

Brelib, S. Recorded in vol. 94 (1957). Items erroneously printed as from Czecho-slovakia, should read, as Slovenia, Jugoslavia.

Breukelman, J., see Clarke, R. F.

(1) **Broadley, D. G.** Serpentes, Colubridae: *Duberria lutrix rhodesiana* n. subsp. Occ. Pap. nat. Mus. S. Rhod. 3 : 215-216.

(2) **Broadley, D. G.** The egg-eater (*Dasypeltis scabra*). Afr. wild Life 12 : 29-32 3 photographs.

(3) **Broadley, D. G.** Snakes of Southern Rhodesia—6. The Egyptian Cobra. (*Naja haje haje*). Afr. wild Life 12 : 125-128 2 figs.

(4) **Broadley, D. G.** Snakes of Southern Rhodesia—7. The common house snake (*Boaedon fuliginosus fuliginosus* Boie). Afr. wild Life 12 : 197-199 2 photographs.

(5) **Broadley, D. G.** Some ecological notes on the British reptiles, with particular reference to their feeding habits. Brit. J. Herpet. 2 : 126-129.

(6) **Broadley, D. G.** A checklist of the snakes of Southern Rhodesia. Part 1. J. Herpet. Ass. Rhodesia No. 3 : 2-6.

(7) **Broadley, D. G.** Feeding habits of *Calamelaps* and *Aparallactus*. J. Herpet. Ass. Rhodesia No. 3 : 7.

(8) **Broadley, D. G.** The genus *Philothamnus* in Rhodesia and Nyasaland. J. Herpet. Ass. Rhodesia No. 4 : 6-7.

(9) [**Broadley, D. G.**] Key to the snakes of Rhodesia and Nyasaland. J. Herpet. Ass. Rhodesia No. 4 : 3-4 2 figs.

Brode, W. E. Prehensility of the tails of two turtles (Family Chelydridae). Copeia : 48.

Brode, W. E. & Allison, P. Burrowing snakes of the panhandle counties of Mississippi. Herpetologica 14 : 37-40.

Brodkorb, P., see Neill, W. T.

(1) **Brongersma, L. D.** Some features of the Dipsadinae and Pareinae (Serpentes, Colubridae). Proc. Akad. Wet. Amst. 61C : 7-12 1 fig.

(2) **Brongersma, L. D.** Note on *Vipera russelii* (Shaw). Zool. Meded. 36 : 55-76 3 pls. 2 figs.

(3) Brongersma, L. D. On an extinct species of the genus *Varanus* (Reptilia, Sauria) from the island of Flores. Zool. Meded. **36** : 113-125 5 pls. 3 figs.

(4) Brongersma, L. D. *Vipera russelli* in de Indische Archipel. Versl. gewone Vergad. Akad. Amst. Afd. Natuurk. **67** 6 : 88-91 1 fig.

(5) Brongersma, L. D. Over het voorkomen van *Crocodylus novaeguineae* in Nederlands Nieuw-Guinea. [English summary.] Lacerta **17** : 3-5.

(6) Brongersma, L. D. The animal world of Netherlands New Guinea. Groningen (J. B. Wolten) : pp. 71 34 figs. 1 map.

(7) Brongersma, L. D. Verslag over het faunistisch en floristisch onderzoek. Natuurhistorisch Maandblad, 47th year, No. 3-4 : 31-37.

(8) Brongersma, L. D. Wallace's Line and the distribution of reptiles. Abstr. Pap. Cent. & Bicent. Congr. Univ. Malaya : 21-22. [Not seen.]

Brown, A. E. Historical note by R. Conant (5). Amer. First Zoo **9** 4 1957 : 3 pp. photog.

Brown, E. E. Feeding habits of the northern water snake, *Natrix sipedon sipedon* Linnaeus. Zoologica, N.Y. **43** : 55-71.

Brown, S. O., see Enlow, D. E.

Brown, W. C. The distribution of terrestrial reptiles in the islands of the Pacific basin. Proc. 8th Pacif. Sci. Congr. **3A** 1956 : 1479-1491.

Brown, W. C. & Fehlmann, A. A new genus and species of arboreal scincid lizards from the Palau Islands. [*Aulacoplax leptosoma*, gen. & sp. nov.] Occ. Pap. nat. Hist. Mus. Stanf. Univ. No. 6 : 1-7 7 figs.

Brumleve, S. J. & Musacchia, K. J. Liver coenzyme A and total fatty acids in turtles under varying environmental conditions. [Abstract.] Fed. Proc. **16** 1957. [Not seen.]

Brun, R., see Hoffstetter, R.

Budker, P., see Albahary, C.

Bundy, R. E. & Neess, J. Color variation in the round-tailed lizard *Phrynosoma modestum*. Ecology **39** : 463-477 5 figs.

Burger, W. L. A new subspecies of the coral snake *Micrurus lemniscatus* from Venezuela, British Guiana and Trinidad; and a key for the identification of associated species of coral snakes. Bol. Mus. Cienc. Nat. **1** 1955 : 1-18. [Not seen.]

Bustard, R. Use of horns by *Chamaeleo jacksoni*. Brit. J. Herpet. **2** : 105-106.

Butler, A. E. Jumping snakes. J. Bombay nat. Hist. Soc. **55** : 173.

Cairncross, B. L. Tortoise with double gular. Afr. Wild Life **12** : 256-257 fig.

Caldwell, D. K. On the status of the Atlantic leatherback turtle, *Dermochelys coriacea coriacea*, as a visitant to Florida nesting beaches, with natural history notes. Quart. J. Fla Acad. Sci. **21** : 285-291 1 fig.

Caldwell, D. K., see Carr, A.

Caldwell, D. K., see Mowbray, L. S.

Camin, J. H. & Ehrlich, P. R. Natural selection in water snakes (*Natrix sipedon* L.) on islands in Lake Erie. Evolution **12** : 504-511 6 figs.

Campbell, W. A. Birth of puffadders and swallowing of young. Afr. Wild Life **12** : 164.

Cansdale, G. S. West African snakes: Correction to fig. of *E. carinatus*, vol. 14, p. 113, should be *B. arietans*. Niger. Fld **23** : 47-48.

Capocaccia, L. I serpenti della Liguria. Parte I, Viperidi. Ann. Mus. Stor. nat. Genova **70** : 173-192 2 pls. [English summary.]

Capponi, M., see Mille, R.

(1) Cardeza, A. F. Los islotes de Langerhans en la tortuga normal. Rev. Soc. Argent. Biol. **33** 1957 : 59-66. [Not seen.]

(2) Cardeza, A. F. Histologia de los islotes de Langerhans en la tortuga diabética por aloxano y por acción de la glucosa. Rev. Soc. Argent. Biol. **33** 1957 : 74-79. [Not seen.]

Carl, G. C. & Guiguet, C. J. Alien animals in British Columbia. Handb. B.C. Prov. Mus. No. 14 : 63 1 fig. p. 88.

Carlo, J. M. De. Consideraciones anatomo-histologicas sobre el higado y vias biliares de *Amphisbaena darwini* D. & B. Rev. Mus. argent. Cienc. nat. (Zool.) 3 (3) 1957 [1958] : 155-186 7 pls.

(1) **Carpenter, C. C.** Reproduction, young, eggs and food of Oklahoma snakes. Herpetologica 14 : 113-115.

(2) **Carpenter, C. C.** An unusual Ouachita map turtle. Herpetologica 14 : 116.

(3) **Carpenter, C. C.** Michigan's turtles and lizards. Jack-Pine Warbler 35 1957 : 83-85. [Not seen.]

Carr, A. Notes on the zoogeography of the Atlantic sea turtles of the genus *Lepidochelys*. Rev. Biol. trop., Costa Rica 5 1 1957 : 45-61 3 figs.

Carr, A. & Caldwell, D. K. The problem of the Atlantic Ridley turtle (*Lepidochelys kempi*) in 1958. Rev. Biol. trop., Costa Rica 6 2 : 245-262 9 figs.

Carter, M. E., see Griffiths, I.

Castro, N. M. de, see Sasso, W. da S.

Chang, C.-C. & Lee, C. I. Cholinesterase and anticholinesterase activities in snake venoms. J. Formosan Med. Ass. 54 1955 : 103-112.

(1) **Cherchi, M. A.** Note su *Uromastix princeps scoretcii* Cherchi (Sauria). Atti Soc. ital. Sci. nat. 97 : 107-111 2 figs.

(2) **Cherchi, M. A.** Note su *Atractaspis scoretcii* Parker (Ophidia). Atti Soc. ital. Sci. nat. 97 : 207-210 1 pl.

(3) **Cherchi, M. A.** Note su *Agama robecchii* Blgr. (Sauria). Atti Soc. ital. Sci. nat. 97 : 233-238 3 pls.

(4) **Cherchi, M. A.** Note su *Holodactylus cornii* Scortecci (Sauria). Atti Soc. ital. Sci. nat. 97 : 346-352 2 pls.

(5) **Cherchi, M. A.** Note sugli Ofidi velenosi somali. Boll. Mus. Ist. biol. Genova 28 : 79-86.

(6) **Cherchi, M. A.** Termoregolazione in *Emys orbicularis* (Linneo). Boll. Mus. Ist. biol. Genova 28 : 123-168 16 graphs.

(7) **Cherchi, M. A.** Radiazione globale e rettili tropicali. Monit. zool. ital. 66 : 3-9. [English summary.]

Cherchi, M. A., Holzer, R., Scortecci, V. & Serrato, G. Microvariazioni di temperatura in *Testudo hermanni* Gmelin. Boll. Mus. Ist. biol. Genova 28 : 9-77 21 graphs.

Chrapliwy, P. S., see Smith, H. M. (4).

Chrapliwy, P. S., see Williams, K. L.

Christensen, P. A. South African snake venoms and anti-venoms. S. Afr. Inst. Med. Res., Johannesburg : 129 pp. [Not seen.]

Clark, H., Siskin, B. & Shannon, J. E. Excretion of nitrogen by the alligator embryo. J. cell. comp. Physiol. 50 1957 : 129-134 2 figs.

Clark, H. F., see Adams, M. S.

Clarke, R. F., Breukelman, J. & Andrews, T. F. An annotated check list of the vertebrates of Lyon County, Kansas. Trans. Kansas Acad. Sci. 61 : 165-194.

Clement, H. Observations on a captive specimen of *Clemmys insculpta*. Copeia No. 4 : 336-338.

Cliburn, J. W. Notes on some snakes from Mississippi. Amer. midl. Nat. 60 : 196-201.

Cliff, F. S. A new species of *Sauromalus* from Mexico. [*S. shawi*, sp. nov.] Copeia : 259-261.

Coates, C. W., see Ray, C.

Cock, J. J. Mijn Chameleons zijn dol op vis! Lacerta 17 : 10, photographs.

Cogger, H. G. Australian geckos. Aust. Mus. Mag. 11 : 343-347 5 figs.

(1) **Colbert, E. H.** Tetrapod extinctions at the end of the Triassic period. Proc. nat. Acad. Sci. Wash. 44 : 973-977 1 fig.

(2) **Colbert, E. H.** Tetrapod extinctions at the end of the Triassic Period. Science 127 : 1060.

(3) **Colbert, E. H.** Support for the proposal by Donald Baird on the generic names *Anchisauripus* Lull, 1904, and *Otouphepus* Cushman, 1904 (Class Reptilia: Theropoda [Ichtnites]). Bull. zool. Nom. 13 Pt. 1 1957 : 31.

Colbert, E. H. & Baird, D. Coelurosaur bone casts from the Connecticut Valley, Triassic. Amer. Mus. Novit. No. 1901 : 1-11 2 figs.

Colbert, E. H. & Ostrom, J. H. Dinosaur stapes. Amer. Mus. Novit. No. 1900 : 1-20 11 figs.

(1) **Colom, G.** Biogeografia de las Baleares. Palma de Mallorca. 1957 : 1-568 figs. [Reptiles pp. 356-391.]

(2) **Colom, G.** Sobre algunas especies "reliquias" de las Baleares. Publ. Inst. Biol. apl. Barcelona **27** : 73-80 3 figs.

Combescot, C. Action de le gonadotrophine chorionique sur le testicule de la Tortue d'eau *Emys leprosa* Schw. C.R. Soc. Biol. Paris **152** : 1077-1079.

(1) **Conant, R.** A field guide to the reptiles and amphibians of the United States and Canada east of the 100th meridian. Boston (Houghton Mifflin Co.). 1958, pp. xv [ii] 366 40 pls. text illust.

(2) **Conant, R.** Notes on the herpetology of the Delmarva Peninsula. Copeia : 50-51.

(3) **Conant, R.** Review of Wright & Wright, Handbook of snakes of the United States and Canada. Science **126** 1957 : 216.

(4) **Conant, R.** Reptiles and Amphibians of the Northeastern States. Zool. Soc. Philad. 3rd Ed. photographs. [1957] : 40 pp.

(5) **Conant, R.** Historical note on A. E. Brown. Amer. First Zoo **9** 1957 : 3 pp. photogr.

(6) **Conant, R.** Stocking the Reptile House. Amer. First Zoo **10** : 4 pp. photos.

Condamin, M. La collection de Serpents de l'I. F.A.N. (acquisitions 1956). Bull. Inst. franç. Afr. N. **20A** 1 : 243-262 2 figs.

Condé, B. & Mathieu, A. Captures de la couleuvre verte et jaune dans le Barrois. Bull. Soc. Sci. Nancy N.S. **17** 2 : 90-94.

Conway, D. M. & Csapo, A. G. Potassium contracture in a variety of conditions. (Abstract.) Biol. Bull. Woods Hole **115** : 333-334.

Coomans de Ruiter, L., see under Ruiter.

(1) **Cooper, J. E.** Ecological notes on some Cuban lizards. Herpetologica **14** : 53-54.

(2) **Cooper, J. E.** Some albino reptiles and polydactylous frogs. Herpetologica **14** : 54-56.

(3) **Cooper, J. E.** The snake *Haldea valeriae pulchra* in Maryland. Herpetologica **14** : 121-122 1 fig.

Cooper, J. S. Observations on the eggs and young of the wall lizard (*Lacerta muralis*) in captivity. Brit. J. Herpet. **2** : 112-121 1 pl.

Cornu, L., see Gonella, J.

Coulson, R. A., see Hernandez, T.

Coulson, R. A., see Stevenson, O. R.

Courcon, J., see Uriel, J.

Cowles, R. B. Possible origin of dermal temperature regulation. Evolution **12** : 347-357 5 figs.

(2) **Cowles, R. B.** Comments on the Schatz theory of dinosaurian extinction. Proc. Pa Acad. Sci. **32** : 265-266.

Cowles, R. B. & Phelan, R. L. Olfaction in rattlesnakes. Copeia : 77-83.

Crawford, B. W. Two new California locality records for *Arizona elegans occidentalis*. Herpetologica **14** : 183.

(1) **Crepax, P. & Parmeggiani, P. L.** Osservazioni morfologiche ed elettrografiche sul cervelletto di *Lucertola*. R.C. Accad. Lincei (8) **24** : 87-91 4 figs.

(2) **Crepax, P. & Parmeggiani, P. L.** Fenomeni elettrici provocati da stimolazioni esterocettive e propriocettive nel cervelletto di *Lucertola*. R.C. Accad. Lincei (8) **24** : 180-185 6 figs.

(1) **Crescitelli, F.** Evidence for a blue-sensitive component in the retina of the gecko, *Oedura monilis*. Science **127** : 1442-1443 1 fig.

(2) **Crescitelli, F.** The natural history of visual pigments. Ann. N.Y. Acad. Sci. **74** : 230-255 3 figs.

Crompton, A. W. The cranial morphology of a new genus and species of ictidosauran. Proc. zool. Soc. Lond. **130** : 183-216 7 figs.

Crooks, F. P. & Smith, P. W. An instance of twinning in the box turtle. Herpetologica **14** : 170-171 photograph.

Csapo, A. I., see Conway, D. M.

Csapo, A. I., see Curtis, B. A.

Cunha, O. R. da. I. Lacertílios da Amazônia. Sôbre a ocorrência do gênero *Bachia* Gray, 1845, na Amazônia Brasileira. (Lacertilia-Teiidae.) Bol. Mus. Goeldi (Zool.) No. 11 : 1-12 1 pl. [English summary.]

Cunningham, J. D. Alligator lizard notes. Herpetologica **14** : 180.

(1) Curry-Lindahl, K. Vertebratfauna i Sareks och Padjelantas fjällomraden. Fauna och Flora 53 : 97-149 2 figs. [English summary.]

(2) Curry-Lindahl, K. Mambas in combat. I.R.S.A.C. 9 Rept. (1956) : 159.

Curtis, B. A. & Csapo, A. I. Iodide contracture in potassium treated muscle. Biol. Bull. Woods Hole 115 : 334-335.

Darewskij, I. S. Natural parthenogenesis in certain subspecies of rocky lizard, *Lacerta saxicola* Eversmann. Dokl. Akad. Nauk SSSR [Transl.] Biol. Sci. 122 : 877-879.

(1) Darewskij, I. S. [Systematic and ecological steps of the lizard *Lacerta saxicola* spreading in Armenia.] Armenia Acad. Sci. 111 1957 : 27-57 2 col. pls. 6 pls. & figs.

Darlington, P. J., see Savage, J. M. (2).

Davis, W. B. & Dixon, J. R. A new *Coleonyx* from Texas [*C. reticulatus*, sp. nov.] Proc. biol. Soc. Wash. 71 : 149-152 1 fig.

Dawson, W. R. & Bartholomew, G. A. Metabolic and cardiac responses to temperature in the lizard *Dipsosaurus dorsalis*. Physiol. Zool. 31 : 100-111 5 figs.

Dees, J. E., see Deichmann, W. B.

Deichmann, W. B., Dees, J. E., Keplinger, N. L., Farrell, J. J. & MacDonald, W. E. Toxicity of *Crotalus adamanteus* (rattlesnake) venom and the antidotal effects of hydrocortisone. Fed. Proc. 16 1957 : — ? [Not scen.]

Deichmann, W. B., see Radomski, J. L.

Delair, J. B. The Mesozoic reptiles of Dorset. Proc. Dorset nat. Hist. arch. Soc. 79 : 47-72.

(1) Dennis, D. M. Notes on reptiles collected in the Shawnee State Forest Scioto County, Ohio. Trimon. Rep. Ohio herpet. Soc. 1 (1) : 1-2.

(2) Dennis, D. M. An early April collection of reptiles from Buckeye Lake, Licking County, Ohio. Trimon. Rep. Ohio herpet. Soc. 1 (2) : 2.

(3) Dennis, D. M. New Ohio County records. Trimon. Rep. Ohio herpet. Soc. 1 (3) : 10.

(4) Dennis, D. M. New herpetological records from Ohio. Trimon. Rep. Ohio Herp. Soc. 1 4 : 20-21.

(1) Deraniyagala, P. E. P. *Sitana ponticeriana mucronata*, subsp. nov. Admin. Rept. Director. Nat. Mus. Ceylon, 1957 (1958) Pt. 4 E : 4-5, figure.

(2) Deraniyagala, P. E. P. Reproduction in the monitor lizard *Varanus bengalensis* (Daudin). Spolia zeylan. 28 : 161-166 2 pls. 1 fig.

(3) Deraniyagala, P. E. P. A double headed Russell's viper. Spolia zeylan. 28 : 167-168 1 pl. 1 fig.

Deraniyagala, R. Y. Pseudo-combat of the monitor lizard *Varanus bengalensis* (Daudin). Spolia zeylan. 28 : 159 2 pls.

Dessauer, H. C. & Fox, W. Geographical variation in plasma protein patterns of snakes. Proc. Soc. exp. Biol. Med. 98 : 101-105 1 fig.

Dessauer, H. C., Fox, W. & Ramirez, J. R. Preliminary attempt to correlate paper - electrophoretic migration of hemoglobins with phylogeny in Amphibia and Reptilia. Arch. Biochem. Biophys. 71 1957 : 11-16 2 figs.

Dessauer, H. C., see Fox, W. (2) (3).

Dew, J., see McKay, F.

Diener, R. A., see Alexander, D. R.

Dixon, J. R. The warty gecko from Laredo, Texas. Herpetologica 13 : 256.

Dixon, J. R., see Davis, W. B.

Dixon, J. R., see Fugler, C. M.

Doery, H. M. The separation and properties of the neurotoxins from the venom of the tiger snake *Notechis scutatus scutatus*. Biochem. J. 70 : 535-543 5 figs.

Doery, H. M., see North, E. A.

(1) Dokov, V. K. Analyse topique des lipides dans le poumon du lézard. C.R. Acad. bulg. Sci. 11 : 327-329 4 figs.

(2) Dokov, V. [K.]. Recherches sur la structure histologique du poumon chez les vertébrés. III. Recherches sur la structure du poumon de la vipère (*Vip. ammodytes*). C.R. Acad. bulg. Sci. 11 : 431-434.

(3) Dokov, V. K. Sur la lipodiérèse du poumon chez le lézard. C.R. Acad. bulg. Sci. 11 : 527-529.

(1) **Donoso-Barros, R.** *Phrynosaura reiche* Werner 1907, una especie en extincion? Invest. zool. chil. **4** : 220-222 2 figs. [English summary.]

(2) **Donoso-Barros, R.** El genero *Ctenoblepharis* Tschudi, en Chile (Reptilia, Squamata, Iguanidae). Invest. zool. chil. **4** : 253-257 3 figs. [English summary.]

(3) **Donoso-Barros, R.** Consideraciones sobre la ecologia de los reptiles del sur de Coquimbo. Zootriatria, Rev. Med. Vet. Chile **3** 1954 : 3-5. [Not seen.]

(1) **Dowling, H. G.** Geographic relations of Ozarkian Amphibians and Reptiles. Southwest. Nat. **1** 4 1956 : 174-189 3 maps 1 chart.

(2) **Dowling, H. G.** A taxonomic study of the ratsnakes. VI. Validation of the genera *Gonyosoma* Wagler and *Elaphe* Fitzinger. Copeia : 29-40 1 pl. 3 figs.

Dudich, B. Die Grundlagen der Fauna eines Karpaten-Flusses. Acta zool., Budapest **3** (3-4) : 179-200.

(1) **Duellman, W. E.** A monographic study of the colubrid snake genus *Leptodeira*. Bull. Amer. Mus. nat. Hist. **114** 1 : 1-152 31 pls. 25 figs. 25 maps.

(2) **Duellman, W. E.** Comments on the type locality and geographical distribution of *Urosaurus gadowi* Schmidt. Copeia : 48-49.

(3) **Duellman, W. E.** A preliminary analysis of the herpetofauna of Colima, Mexico. Occ. Pap. Mus. Zool. Univ. Mich. No. 589 : 1-22 2 maps.

(4) **Duellman, W. E.** Systematic status of the colubrid snake, *Leptodeira discolor* Günther. Publ. Mus. nat. Hist. Univ. Kansas **11** 1 : 1-9 4 figs.

Duellman, W. E. & Schwartz, A. Amphibians and reptiles of southern Florida. Bull. Fla. St. Mus. **3** 5 : 181-324 28 figs.

(1) **Dughi, R. & Sirugue, F.** Les oeufs de Dinosauriens du Bassin d'Aix-en-Provence. C.R. Acad. Sci. Paris **245** 1957 : 707-710 3 figs.

(2) **Dughi, R. & Sirugue, F.** Le limite supérieure des gisements d'oeuf de Dinosauriens dans le bassin d'Aix-en-Provence. C.R. Acad. Sci. Paris **245** 1957 : 907-909.

(3) **Dughi, R. & Sirugue, F.** Observations sur les oeufs de Dinosauriens du bassin d'Aix-en-Provence: les oeufs à coquilles lustrifiées. C.R. Acad. Sci. Paris **246** : 2271-2274.

(4) **Dughi, R. & Sirugue, F.** Les oeufs de Dinosauriens du bassin d'Aix-en-Provence: les oeufs du Bégudien. C.R. Acad. Sci. Paris **246** : 2386-2388.

Duguy, R. Le comportement de printemps chez *Vipera aspis*. Vie et Milieu **9** : 200-210 4 figs.

Duguy, R. & Philippe-Knoepffler, L. Reptiles et batraciens des environs de Banyuls. Vie et Milieu **9** : 129-131.

Duguy, R., see Bodin, J.

Dullemeijer, P. A comparative functional-anatomical study of the heads of some Viperidae. Gegenbaurs Jb. **99** : 881-985 54 figs.

Duméril, A. M.-C., see Guibé, J. (2).

Eakin, R. M., see Stebbins, R. C.

Earle, A. M. Albinism in the prairie ring-necked snake. Herpetologica **13** : 272.

Eaton, T. H. A composite diagram of evolutionary changes. J. Elisha Mitchell Sci. Soc. **72** 1956 : —. [Not seen.]

Edgren, R. A. Umbilical scar position and sexual dimorphism in hog-nosed snakes, genus *Heledon*. Nat. Hist. Misc. No. 163 : 1-6 1 fig.

Edmund, A. G. On the special foramina in the jaws of many ornithischian dinosaurs. Contr. R. Ont. Mus. Zool. No. 48 1957 : 1-14 6 figs.

E. H. C. An appreciation of K. P. Schmidt. Curator **1** : 19.

Ehrlich, P. R., see Camin, J. H.

Eklund, C. M., see Thomas, L. A.

Elbel, R. E., see Taylor, E. H.

Emerson, A. E. K. P. Schmidt—Herpetologist, Ecologist, Zoogeographer. Science **127** : 1162-1163.

Enlow, D. E. & Brown, S. O. A comparative histological study of fossil and recent bone tissues. Part III. Texas J. Sci. **10** : 187-230 13 pls.

Estes, E. T. Timber rattlesnake in Jefferson County, Illinois. Herpetologica **14** : 68.

Fange, R., see Schmidt-Nielsen, K.

Farrell, J. J., see Deichmann, W. B.

Fehlmann, A., see Brown, W. C.

Fendler, R. Eine neue flexible Abguss-Masse. Präparator 1 1955 : 8-9 1 fig.

Ferguson, D. E., Payne, K. E. & Storm, R. M. Notes on the herpetology of Baker County, Oregon. Gr. Basin Nat. 18 : 63-65.

Ferreira, H. M. & Leão, A. A. P. Nota sobre o estudo da depressão alastrante em répteis. Anais Acad. brasil. Cienc. 30 : I. [Abstract.]

Fichman, M., see Henriques, O. B. & S. B.

Fine, J. M., see Uriel, J.

Fisher, H. Begegnungen mit Kreuzottern in der Rhön. Natur u. Volk 88 : 338-343 2 figs.

(1) Fitch, H. S. Natural history of the six-lined racerunner (*Cnemidophorus sexlineatus*). Univ. Kans. Publ. Mus. nat. Hist. 11 2 : 11-62 9 charts.

(2) Fitch, H. S. Home ranges, territories, and seasonal movements of vertebrates of the natural history reservation. Univ. Kansas Publ. Mus. nat. Hist. 11 : 63-226 6 pls. 24 figs.

FitzSimons, D. C. & Smith, H. M. Another rear-fanged South African snake lethal to humans. Herpetologica 14 : 198-202.

(1) Fitzsimons, V. A new *Cordylus* from Gorongosa, Moçambique. [*C. warreni mossambicus* subsp. nov.] Ann. Natal Mus. 14 : 351-353.

(2) Fitzsimons, V. On a small collection of reptiles and amphibians from the Inyanga district, S. Rhodesia. Occ. Pap. nat. Mus. S. Rhod. 3 : 204-214 1 fig.

(3) Fitzsimons, V. & Brain, C. K. Serpentes, Colubridae: *Calamellaps ventrimaculatus websteri* n. subsp. Occ. Pap. nat. Mus. S. Rhod. 3 : 202-203 1 fig.

(4) Fitzsimons, V. & Brain, C. K. A short account of the reptiles of the Kalahari Gemsbok National Park. Koedoe 1 (1) : 99-104 1 fig.

Fleay, R. How to capture a goanna. Anim. Kingd. 61 : 73-75 3 photographs.

Fleischlauer, K. Untersuchungen am Ependym des Zwischen- und Mittelhirns der landschildkröte (*Testudo graeca*). Z. Zellforsch. 46 1957 : 729-767. [Not seen.]

Foor, W. H. The detection and suggested cure of some commonly experienced diseases of captive reptiles. Trimon. Rep. Ohio herpet. Soc. 1 (1) : 3-4.

Foulkes, R. H. & Schuknecht, H. F. X-ray diffraction of otoliths and egg shells of bird and reptile. Amer. Nat. 92 : 319.

(1) Fox, W. Sexual cycle of the male lizard, *Anolis carolinensis*. Copeia : 22-29 1 pl. 2 figs.

(2) Fox, W. & Dessauer, H. C. Growth rates in captive male green anoles. Herpetology 14 : 196-197 fig.

(3) Fox, W. & Dessauer, H. C. Response of the male reproductive system of lizards (*Anolis carolinensis*) to unnatural day-lengths in different seasons. Biol. Bull. Woods Hole 115 : 421-439 2 figs.

Fox, W., see Dessauer, H. C.

Freeman, H. W. An ecological study of the fauna and flora of the Savannah River project area. Part V. The amphibians and reptiles of the Savannah River project area. Univ. S. Carol. Publ. Biol. (3) 2 1 1956 : 26-35. [Not seen.]

Freiberg, M. A., see Oliver, J. A. (3). Review of: Vida de Batracios y Reptiles Sudamericanos.

Freytag, G. E. Die Zunge der Reptilien. Aquar. u. Terr. Monatsschr. 5 10 : 1 fig.

Frommhold, E. Heimische Lurche und Kriechtiere. Die neue Brehm-Bücherei, Wittenberg/Lutherstadt 1954 : 122 pp. 57 photographs.

Fudakowski, J. Remarks on the herpetological fauna of Poland. Acta zool. Cracov. 2 : 825-844.

Fugler, C. M. & Dixon, J. R. Note-worthy snakes from Puebla and Veracruz, Mexico. Herpetologica 14 : 185-188 1 fig.

(1) Fukada, H. Embryological study on the integumental poison gland in the nuchal region of *Natrix tigrina tigrina*. Bull. Kyoto Gakugei Univ. Ser. B. No. 12 : 3-8 2 pls. 5 figs.

(2) Fukada, H. Biological studies on the Snakes. IV. Seasonal prevalence in the fields. Bull. Kyoto Gakugei Univ. Ser. B No. 13 : 22-35 21 graphs.

Gabe, M. & Rancurel, P. Particularités histologiques du complexe hypothalamohypophysaire chez *Crocodilus niloticus* Laurenti. C.R. Acad. Sci. Paris 247 : 522-524.

Gail, R. & Rageau, J. Introduction à l'étude des serpents marins (Ophidiens Hydrophiidae) en Nouvelle-Calédonie. Bull. Soc. Path. exot. 51 : 448-459 13 figs.

Ganapati, P. N. & Rajyalakshmi, K. Bionomics and some anatomical peculiarities of the limbless lizard *Barkudia insularis* Annandale. Rec. Indian Mus. 53 1955 [1958] : 279-291 4 figs.

Gandal, C. P. A practical method of obtaining blood from anesthetized turtles by means of cardiac puncture. Zoologica N.Y. 43 : 93-94 1 text-fig.

Ganguly, D. N. & Mitra, B. On the structure and the development of the vertebral column in the house-gecko, *Hemidactylus flaviviridis* Rüppel. Anat. Anz. 105 : 4-25 36 figs.

Gans, C. Review of:—Wittman, B., Europas Giftschlangen, 1954. Copeia No. 1 : 64-65.

Gans, C., see Shreve, B.

Gasdori, E. C. & Goodnight, C. J. The amino acids found in the blood proteins of turtles. [Abstract.] Anat. Rec. 125 1956 : 612.

Gaumer, A. E. H. & Goodnight, C. J. Some aspects of the hematology of turtles as related to their activity. Amer. Midl. Nat. 58 1957 : 332-340. [Not seen.]

G. B. T. Review of Christensen, P. A., South African snake venoms and anti-venoms. Afr. Wild Life 12 1958 : 342.

Gehlbach, F. R. A first record for *Trimorphodon lambda* in New Mexico. Copeia : 222.

Georgatsos, J. G., Hussey, C. V. & Quick, A. J. Synergistic action of Russell viper venom and tissue thromboplastin extracts. Proc. Soc. exp. Biol. Med. 97 : 674-676.

George, J. C. & Shah, R. U. The myology of the chelonian limb. 2. The hind limb musculature of *Lissemys punctata*. J. anim. Morphol. Physiol. 5 : 21-33 7 figs.

Germaine, L. A. P. La faune des lacs, des étangs et des marais de l'Europe occidentale. 2me édition révisée... par E. Séguy. Encyclopédie pratique du Naturaliste, Tome XX. Paris (Editions Paul Lechevalier) 1957 pp. x, 549, 32 col. pls. text illust. [pp. 445-455].

Gijzen, A. & Wermuth, H. Schildkröten-pflege in öffentlichen Schauaquarien nach biologischen Gesichtspunkten. Bull. Soc. Zool. Anvers No. 6: pp. 65 52 pls.

Gillaspay, C. C. Superior olive in the alligator. Proc. Soc. exp. Biol. Med. 98 : 492-494 2 figs.

Girod, C. & Lefranc, G. Recherches sur la cytologie sanguine des reptiles, le sang normal de *Testudo ibera* (Pal.). C.R. Soc. Biol. Paris 152 : 490-494.

Girolamo, A. De, see Saviano, M.

Girons, H., see Saint Girons.

Glaser, R. Increase in locomotor activity following shielding of the parietal eye in night lizards. Science 128 : 1577-1578 1 fig.

Glauert, L. Mammals and Reptiles of King's Park. W. Aust. Nat. 6 : 155-156.

Gloyd, H. K. Aberrations in the color patterns of some Crotalid snakes. Bull. Chicago Acad. Sci. 10 : 185-195 5 figs.

Goin, C. J. Comments upon the origin of the herpetofauna of Florida. Quart. J. Fla. Acad. Sci. 21 : 61-70.

Gonella, J. & Cornu, L. Modifications de l'ERG et de l'ERGI de l'oeil de Tortue sous l'action d'un courant traversant la rétine. C.R. Soc. Biol. Paris 152 : 1254-1257 3 figs.

Gonzales, R. R., see Rabor, D. S.

Gooch, B. Reptiles. Proc. Dorset nat. Hist. arch. Soc. 79 : 31.

Goodman, J. H. Material ingested by the cotton mouth, *Agkistrodon piscivorus*, at Reelfoot Lake, Tennessee. Copeia : 149.

Goodnight, C. J., see Gasdori, E. C.

Goodnight, C. J., see Gaumer, A. E. H.

Gordon, R. E. Remarks on the range, behaviour and habitat of *Abastor erythrogrammus* (Latreille). Proc. La Acad. Sci. **20** : 35-37.

Goslar, A. G. Beiträge zum Häutungsvorgang der Schlangen. 1. Mitteilung. Acta histochem. **5** : 182-212 2 pls. [English, etc. summaries.] [Not seen.]

Graham, J., see Blair, J. A.

Grandison, G. A. C., see Phillips, W. W. A.

(1) **Grant, C.** Sexual dichromatism in *Sphaerodactylus notatus*. Herpetologica **14** : 184.

(2) **Grant, C.** A new gekkonid lizard (*Sphaerodactylus*) from Cuba. [*S. spielmani*, sp. nov.] Herpetologica **14** : 225-227 2 figs.

(3) **Grant, C.** A new *Gymnophthalmus* (Reptilia, Teiidae) from Barbados, B.W.I. [*G. underwoodi*, sp. nov.] Herpetologica **14** : 227-228.

Grant, C., see Smith, H. M. (5) (6) (7).

Griffiths, I. & Carter, M. E. Sectioning refractory animal tissues. Stain Technology **33** : 209-214.

Grijs, P. de. De Mopskopleguaan. Lacerta **16** : 74.

(1) **Guibé, J.** Les Serpents de Madagascar. Mém. Inst. Sci. Madagascar **12A** : 189-260 42 figs.

(2) **Guibé, J.** André Marie—Constant Duméril, Le Père de l'Érpétologie. Leçon inaugurale du cours de Zoologie (Reptiles et Poissons) prononcée le 29 avril 1958. Bull. Mus. Hist. nat. Paris (2) **30** : 329-341.

Guiguet, C. J., see Carl, G. C.

Guilday, J. E. & Bender, M. S. A recent fissure deposit in Bedford County, Pennsylvania. Ann. Carnegie Mus. **35** : 127-137 2 figs.

Gunter, G. A sarcophagid fly larva parasitic in *Anolis carolinensis*. Copeia : 336.

Guraya, S. S. Histochemical studies of lipids in oocytes. II. Lipids in the oogenesis of *Hemidactylus flaviviridis* Rüppell. Res. Bull. Panjab Univ. No. 155 : 245-253 3 figs.

Gut, H. J., see Neill, W. T.

Habermann, E. Gewinnung und Eigenschaften von Crotactin, Phospholipase A, Crotamin und "Toxin 111" aus dem Gift der brasilianische Klaperschlange. Biochem. Zeits. **329** 1957 : 405-415. [Not seen.]

Haggag, G., see Khalil, F.

Hahn, D. B. New county records from Southern Michigan. Ohio Herpet. Soc. **14** : 19.

Hamilton, W. J. Tecnophagy in the Florida five-lined skink. Herpetologica **14** : 28.

Hamilton, W. J. & Pollack, J. A. Notes on the life history of the red-tailed skink. Herpetologica **14** : 25-28 1 fig.

(1) **Hardy, J. D.** A new lizard of the genus *Leiocephalus* from Cuba (Squamata: Iguanidae). [*L. macropus immaculatus*, subsp. nov.] J. Wash. Acad. Sci. **48** : 294-300 5 figs.

(2) **Hardy, J. D.** A geographic variant gradient in the Cuban lizard, *Leiocephalus macropus* Cope. Herpetologica **13** : 275-276 2 figs.

(3) **Hardy, J. D.** Tail prehension and related behaviour in a New World lizard. Herpetologica **14** : 205-206 1 fig.

Harris, R. W. A nocturnal tendency in *Phrynosoma platyrhinos*. Copeia : 222.

Harrison, T. Notes on the edible green turtle (*Chelonia mydas*)—5. Semah ceremonies, 1949-58. Sarawak Mus. J. **8** : 482-486.

Hartman, W. L. Intergradation between two subspecies of painted turtle, genus *Chrysemys*. Copeia 1958, 1959 : 261-265 4 figs.

Haug, A. Die Paraffin-Plastik. Präparator **1** 1955 : 47-50 3 figs.

(1) **Hecht, M. K.** Review of:—Blair, W. F. et al.; Vertebrates of the United States. Copeia : I, 60-61.

(2) **Hecht, M. K.** Review of:—Barash, A., Reptiles of Israel. Copeia : I, 63-64.

Hediger, H. Zum Überwinterungsverhalten der Griechischen Landschildkröte. Natur u. Volk **88** : 121-123 2 figs.

Heilingbrunner, F. Lurche und Kriechtiere in der Umgebung von Bamberg. Ber. naturf. Ges. Bamberg No. **36** : 42-50.

(1) Hellmich, W. Zur Kenntniss von *Kinosternon scorpioides seriei* Freiberg. Opusc. Zool. Nr 16 : 1-7.

(2) Hellmich, W. Karl Patterson Schmidt. Aquar. u. Terrar. Zeitsch. (Datz) 11 2 : 63-64.

(3) Hellmich, W. Nemrut Dag und Suphan Dag in Ostanatolien. Mitt. Deutsch. Alpenvereins 10 2 : 24-26 4 photographs.

Hendrickson, J. R. The green sea turtle, *Chelonia mydas* (Linn.) in Malaya and Sarawak. Proc. zool. Soc. Lond. 130 : 455-535 10 pls. 15 figs.

Hendrickson, J. R. & Alfred, E. R. Nesting populations of sea turtle on the east coast of Malaya. Proc. 9th Pacif. sci. Congr. 16 : 137-138.

Henriques, O. B. & S. B., Lavras, A. A. C., Fichman, M. & Mandelbaum, F. R. The proteolytic activity of the venom of *Bothrops jararaca*. Biochem. J. 68 : 597-605 5 figs. [Not seen.]

Hensley, M. M., see Smith, P. W.

Hernandez, T. & Coulson, R. A. Inhibition of renal tubular function by cold. Amer. J. Physiol. 188 1957 : 485-489.

Hernandez, T., see Stevenson, O. R.

Herpetological Association of Rhodesia. Journal, No. 3 : 1-7, No. 4 : 1-7. [Roneocopy.]

Herre, A. W. On the gliding of flying lizards, genus *Draco*. Copeia : 338-339.

(Hewitt, D. R.) Release of lizards. Brit. J. Herpet. 2 : 134.

Hinde, R. A. Behaviour and speciation in birds and lower vertebrates. Biol. Rev. 34 : 85-128.

Hoesch, W. Anpassung als Vorgang. Bonn. zool. Beitr. 8 : 285-295 3 figs.

Hoesel, J. K. P. van. Notices over *Vipera russellii* en enkele andere slangen van Flores. Lacerta 16 : 32-36 photographs. [English summary.]

Hoervers, L. G. A. De cobra in het terrarium. Lacerta 16 : 41-42.

(1) Hoffstetter, R. Quelques observations sur les Stegosaurinés. Bull. Mus. Hist. nat. Paris (2) 29 : 537-547.

(2) Hoffstetter, R. & Brun, R. Un Dinosaurien Stégosauriné dans le callovien du Calvados. C.R. Acad. Sci. Paris 243 1956 : 1651-1653.

(3) Hoffstetter, R. & Brun, R. Note complémentaire sur la découverte d'un dinosaurien stégosauriné dans le callovien d'Argences (Calvados). Rev. Soc. Sav. Haute Norm. No. 9 : 69-78.

Hoge, A. R. Die systematische Stellung von *Xenodon punctatus* Peters 1880 und *Philodryas taeniatus* Hensel 1868. Mitt. zool. Mus. Berl. 34 : 49-56 2 pls.

Hoge, A. R., see Schreiber, G.

Hollingsworth, M. J. The metaphase chromosome of *Crocodilus niloticus*. Cytologia, Tokyo 22 1957 : 412-414 7 figs.

Holman, J. A. Notes on reptiles and amphibians from Florida caves. Herpetologia 14 : 179-180.

Holsheimer, J. P. Een terrarium voor hagedissen. Lacerta 16 (4-5) : 31-32 photograph.

Holzer, R., see Cherchi, M. A.

(1) Hoofien, J. H. An addition to the fauna of Sinai, *Eremias brevirostris* Blanf. Ann. Mag. nat. Hist. (12) 10 : 719-720.

(2) Hoofien, J. H. A record specimen of the European worm snake *Typhlops vermicularis* Merrem. Brit. J. Herpet. 2 : 132-133.

Hoogerwerf, A. The Indonesian Giant [*V. komodoensis*]. Nat. Hist. N.Y. 67 : 136-141 photographs.

Horowitz, S. B. The energy requirements of melanin granule aggregation and dispersion in the melanophores of *Anolis carolinensis*. J. cell. comp. Physiol. 51 : 341-357 5 figs.

Hose, A. R. Tres notas sobre serpentes Brasileiras. Pap. Dep. Zool. Sec. Agric. S. Paulo 13 (17) : 221-225 4 figs. [English abstract.]

Ho She-sing, see Hu, B. C.

Hosmer, W. List of snakes recorded from Cairns and hinterland. N. Qd. Nat. 27 120 : 5.

(1) Houbá, J. De grashagedis *Lacerta taurica* Pallas. Lacerta 16 : 69 photograph.

- (2) Houba, J. *Coluber jugularis caspius*. Aquar. Terrar. Z. **11** : 218-219 1 fig.
- Houck, W. J. & Joseph, J. G. A northern record for the Pacific ridley, *Lepidochelys olivacea*. Copeia : 219-220.
- Hu, B. C., Hwang, M. H., Ho She-sing & Ke-chen. New records of snakes from Chekiang. Acta zool. Sinica **10** (2) : 113-122 2 pls. [In Chinese: English summary.]
- Hubbell, G. The preparation of reptile skulls. Trimon. Rep. Ohio herpet. Soc. **1** (3) : 15-18 2 pls.
- Hudson, R. G. Longer life for lizards. Amer. Biol. Teacher **19** 1957 : — ? [Not seen.]
- Huhey, J. E. Some feeding habits of the eastern hog-nosed snake. Herpetologica **14** : 68.
- Humphrey, F. L. & Shannon, F. A. A state record and range extension for the snake *Sympholis hippiens* (Serpentes: Colubridae). Herpetologica **13** : 257-260 1 fig.
- (1) Hunt, T. J. Influence of environment on necrosis of turtle shells. Herpetologica **14** : 45-46.
- (2) Hunt, T. J. The ordinal name for tortoises, terrapins and turtles. Herpetologica **14** (3) : 148-150.
- (3) Hunt, T. J. The ecological influence, with particular reference to light and soil, on the behaviour and activities of certain reptiles. Proc. 15th Intern. Cong., Zool. Sect. 11, 9.
- (4) Hunt, T. J. Epimorphic regeneration during hibernation, Nature, Lond., **181**, 4604 : 290.
- Hussey, C. V., see Georgatsos, J. G.
- Hutton, K. E. The blood chemistry of terrestrial and aquatic snakes. J. cell. comp. Physiol. **52** : 319-328.
- Hwang Mei-hwa, see Hu, B. C.
- (1) Inger, R. F. Three new skinks related to *Sphenomorphus variegatus* (Peters). [*S. sabanus*, *multisquamatus*, *melanopleurus* spp. nov.] Fieldiana Zool. **39** (24) : 257-268 3 figs.
- (2) Inger, R. F. Notes on the Bornean grass snake. Sarawak Mus. J. **8** : 479-481 2 figs.
- Ionides, C. J. P. Case history of *Atractaspis* bite and climbing ability of *Philothamnus semivariegatus*. J.E. Afr. nat. Hist. Soc. **23** : 14.
- Irvine, W. Notes on the genus *Varanus* (continued). N. Qd Nat. **27** 120 : 3.
- Izard, Y. & Boquet, P. Recherches sur les venins de *Vipera xanthina palestinae* et d'*Echis carinata*. Ann. Inst. Pasteur Paris **94** : 583-589. [English summary.]
- James, L. F., see Smith, H. M. (8).
- Janensch, W. Der Ornithopode *Dysalotosaurus* der Tendaguruschichten. Palaeontographica Suppl. **7** 3 1955 : 105-176 pls. 9-14 text-figs. 1-40 9 tables.
- Joseph, J. G., see Houck, W. J.
- Kaiser, E. & Michl, H. Die Biochemie der tierischen Gifte. Wien (Franz Deuticke) : pp. viii, 258 23 figs.
- Kaplan, H. M. Marking and banding frogs and turtles. Herpetologica **14** : 131-132 figs.
- Kattouw, S. H. Nog eens over het uitbroeden van reptielenieren. Lacerta **16** : 65.
- Kawasaki, K. Application of the indirect peroxidase reaction to tissue staining with special reference to cartilage tissue. The 28th report of histochemical study of peroxidase. Okajimas Folia Anat. Jap. **32** (1) : 11-23.
- Keiser, E. D. The green water snake in Illinois. Herpetologica **13** : 260.
- Keller, E. Ein guter Fang. Aquar. Terrar. Z. **11** : 247-248 1 fig.
- Keplinger, N. L., see Deichmann, W. B.
- Kessel, E. L., see Leviton, A. E.
- Keyter, B. J. The birth of Puffadders. Afr. wild Life **12** : 76.
- Khalil, F. & Haggag, G. Nitrogenous excretion in crocodiles. J. exp. Biol. **35** : 552-555.
- (1) Khozatzky, L. I. [Ground tortoise from the Neogene of the Northern Tian-Shau.] Mat. Faun. Flor. Kazak. **2** 39-544 figs. [In Russian.]
- (2) Khozatzky, L. I. [A rare case of conservation of the remains of a fossil tortoise.] Mat. Faun. Flor. Kazak. **2** : 55-59 2 figs. [In Russian.]

King, V. S. S. Place of crocodiles in nature. *Afr. Wild Life* **12** : 258.

Kitazume, Y. Further studies on the effect of the nuchal gland substance of *Natrix tigrina* upon the blood pressure of some animals. *Zool. Mag., Tokyo* **67** (4) : 111-115. [English summary.]

Klauber, L. M., see Ahrenfeldt, R. H.

Klausewitz, W. Die Atoll Riffe der Malediven. *Natur u. Volk* **88** : 380-390 10 figs.

Klein, T. A. The snake *Thamnophis marcianus* in Veracruz, Mexico. *Herpetologica* **14** : 124.

Klemm, M. Reptilia. In Blunck, H., *Handb. der Pflanzenkrankheiten* Auf. 5, Berlin (Parey) 1958, Bd. 5 Teil 2 fig. 5, pp. 1-6.

Klemm, W. A few remarks on snakes in our live corner. *Natura, București* **10** 4 : 101-106. [English summary.]

Klemmer, A. Ein lebendes Chamäleon? *Natur u. Volk* **87** 1957 : 403 1 fig.

Klynstra, F. B. *Chamaeleo chamaeleon*. *Lacerta* **16** : 49-50 photograph.

Klynstra, M. J. De Muurgeeko. *Lacerta* **16** : 58.

Knoop, A., see Bargmann, W.

Knötig, H. Zweitstruktur als Einpassungsfaktor. *Verh. dtsh. zool. Ges.* **1957** [1958] : 304-330 6 figs.

Koba, K. Herpetofauna of the Amami group of the Loo Choo Islands (11). *Mem. Fac. Educ. Kumamoto Univ.* **6** : 173-185 9 photographs. [In Japanese, English names and localities.]

Kochva, E. T. The head muscles of *Vipera palaestinae* and their relation to the venom gland. *J. Morph.* **102** : 23-53 13 figs.

(**Koloss, E. I.**) [One type of evolution of the striated muscle tissue.] *J. Acad. Sci. URSS biol.* **4** : 408-415 5 figs. [In Russian with English summary.]

(1) (**Kouznetsov, V. V.**) [Tortoises of the Miocene in Prearal.] *Mat. Faun. Flor. Kazak.* **1** 1955 : 66-69. [In Russian.]

(2) (**Kouznetsov, V. V.**) [Oligocene tortoises in Mineske-Suek in Central Kazakhstan.] *Mat. Faun. Flor. Kazak.* **1** 1955 : 70-86 12 figs. 3 pl. [In Russian.]

(3) (**Kouznetsov, V. V.**) [A large species of the ground tortoise from the Miocene of the Turgai depression.] *Mat. Faun. Flor. Kazak.* **2** : 60-68 2 pl. [In Russian.]

(4) (**Kouznetsov, V. V.**) [A sea turtle from the Neogene of the Irtysh basin in the Pavlodar area.] *Mat. Faun. Flor. Kazak.* **2** : 69-71 figs. [In Russian.]

(1) **Kramer, E.** Zur Schlangenfauna des Puschlavs. *Rev. suisse Zool.* **65** : 279-284.

(2) **Kramer, E.** Eine neue Rasse der Aspispiper aus dem südwestlichen Frankreich *Vipera aspis zinnikeri* n. subsp. *Vjschr. naturf. Ges. Zurich* **103** : 321-326 2 figs.

(3) **Kramer, E.** Ueber eine interessante Giftschlange, *Vipera ursinii* Bonaparte, aus den Abruzzen. *Aquar. Nachrichten* **5** 9 : 137 & 145-146.

Kramer, E. & Schnurrenberger, H. Zur Schlangenfauna von Libyen. *Aquar. Terrar. Z.* **11** (2) : 56-59 2 figs.

Krishna Pillai, N. On the abnormal tail of a gecko. *J. Bombay nat. Hist. Soc.* **55** : 363-365 3 figs.

Krüger, E. C. H. Beobachtungen an einer schwarzen Kreuzotter. *Beitr. Naturk. niedersachs.* **11** 1 : 17-19.

Kruta, V. Comparaison entre les variations thermiques de la fréquence cardiaque de quelques mammifères, reptiles et batraciens. *Acta Phys. Pharm. Neer.* **6** 1957 : 143-152. [Not seen.]

Kuntz, W. F. Contribuciones al estudio de la pigmentacion en los vertebrados. *Zooiatria* **3** 1953 : 3-27. [Not seen.]

Kvam, T. The teeth of *Alligator mississippiensis* Daud. IV. Tooth succession. *Nytt Mag. Zool.* **6** : 92-95 2 pls.

Lahargue, J., see Bounhiol, J.-J.

Landwehr, J. Notities over gedragingen van enkele hagedissen in gevangenschap. *Lacerta* **16** : 42-46 4 figs. [English summary.]

Langston, W., jr. Champsosaur giants. *Nat. Hist. Pap. Ottawa* No. 2 : 1-4 1 fig.

Lanza, B. Notizie su due popolazioni insulari di *Lacerta muralis* e sulla *Vipera ursinii* in Italia. Ann. Mus. Stor. nat. Genova **70** : 305-322 5 figs. [English summary.]

(1) **Lapparent, A. F. de.** Sur les Dinosauriens du "Continental intercalaire" du Sahara central. C.R. Acad. Sci. Paris **246** : 1237-1240.

(2) **Lapparent, A. F. de.** Découverte d'un gisement d'oeufs de Dinosauriens dans le Crétacé supérieur du bassin de Tremp (Province de Lérida, Espagne). C.R. Acad. Sci. Paris **247** : 1879-1880.

(3) **Lapparent, A. F. de.** Nouvelle révision des gisements à Dinosauriens de la région de Saint-Chinian (Hérault). Bull. Soc. géol. Fr. (6) **4** 4-6 1954 : 409-413 pl. 14 text-figs. 1-2.

Laurent, R. F. Notes herpétologiques africaines II. Rev. Zool. Bot. afr. **58** : 115-128.

Lavras, A. A. C., see Henriques, O. B. & S. B.

Lawrence, J. & Wilhoit, D. Cryptic coloration in lava-dwelling horned lizards. Copeia : 43-44.

Lawson, V. Observations on the brown tree snake. N. Qd. Nat. **27** 121 : 3-5.

Leach, A. A. The amino acid composition of amphibian, reptile and avian gelatins. Biochem. J. **67** 1957 : 83-87.

Láao, A. A. P., see Ferreira, H. M.

Le Bourdelles, F., see Uriel, J.

Lee, C. J., see Chang, C.-C.

Lefranc, G., see Girod, C.

Lefrou, G. & Michard, V. Contribution à l'étude de l'action des antihistaminiques dans le traitement des envenimations par morsures de serpents. Bull. Soc. Path. exot. Paris **49** 5 1957 : 936-945.

Legait, H. & E. Les voies extra-hypophysaires des noyaux neurosécrétoires hypothalamiques chez les batraciens et les reptiles. Acta Anat. **30** 1957 : 429-443.

Legler, J. M. Extra-uterine migration of ova in turtles. Herpetologica **14** : 49-52 1 fig.

(1) **Lehmann, H.** Meine erste Bekanntschaft mit dem Hardun. Aquar. Terrar. Z. **11** : 59-60.

(2) **Lehmann, H.** Meine ersten Mauergeckos, *Tarentola mauritanica* (Linné). Aquar. Terrar. Z. **11** : 181-182 1 fig.

(1) **Lema, T. de.** Bicefalia em Serpentes. Iheringia, Zool. No. 5 1957 : 1-8 3 pls.

(2) **Lema, T. de.** Notas sobre os répteis do Estado do Rio Grande do Sul-Brasil. I. Introdução ao estudo dos Répteis, pp. 7-18. II. Nota prévia sobre a espécie de colubrideo aquático *Helicops carinicauda* (Wied. 1825), pp. 19-24. III. Bicefalia em *Helicops carinicauda* (Wied.), pp. 25-27, fig. IV. Anomalia cromática em "Cruzeira" (*Bothrops alternata*, Dum., Bbr. & Dum.), pp. 28-31, pl. Iheringia, Zool. No. 10 : 1-31 6 pls. [English summaries.]

Le Minor, L., see Mille, R.

Letitre, E. V. Een nootlottig voorval. Lacerta **17** : 9 fig.

Leviton, A. E. Reinstatement of the generic name *Rabdion* A. H. A. Dumeril for a monotypic genus of Asian burrowing snakes. Herpetologica **14** : 47-48.

Leviton, A. E. & Kessel, E. L. A second instance of albinistic tendencies in the Pacific gopher snake. Herpetologica **14** : 77-78 photo.

Liat, L. B., see Boo-Liat.

Lierath, W. Über verabscheute Tiere. Aquar. Terrar. Z. **11** : 90-91.

Lin, N. Coital movement patterns in pairings of a male *Terrapene carolina bairdi* with a female *Terrapene c. triunguis*. Brit. J. Herpet. **2** : 96-97.

Liotti, F. S. Ricerche comparative sull'attività catalasica (ossiforo di spirito) del sangue nelle varie classi dei vertebrati. Riv. Biol. **50** : 43-57. [English summary.]

List, J. C. Notes on the skeleton of the blind snake, *Typhlops braminus*. Spolia zeylan. **28** : 169-174 1 fig.

List, J. C., see Smith, H. M. (9).

Livezey, R. L. Procaine hydrochloride as a killing agent for reptiles and amphibians. Herpetologica **13** : 280.

Lombard, G. L. Birth of baby puffadders and swallowing of young. Afr. Wild Life **12** : 253.

Loveridge, A. Revision of five African snake genera. Bull. Mus. comp. Zool. Harv. **119**: 1-198.

Lowe, C. H. jr., see Maslin, T. P.

Lundy, W. E. Bushmaster! Nat. Hist. N.Y. **66** 2 1957: 78-79 & 107 3 photographs.

Maaløe, O. La estandarización de anti-venenos de serpiente. Bol. ofic. Sant. Panamer. **43** 1 1957: 77-91 4 figs. [English summary.]

McCann, Y. M. The distribution of New Zealand reptiles. Proc. N.Z. ecol. Soc. No. 4 1957: 15-16.

McCoy, C. J. Daily activity of some Oklahoma lizards. Rep. Ohio herpet. Soc. **1** (3): 12.

MacDonald, W. E., see Deichmann, W. B.

Machado, A. de Barros. Os trabalhos do museu do Dundo no campo da biologia. Pub. Inst. Biol. apl. Barcelona **27**: 19-30 37 figs.

McKay, F. & Dew, J. Garter snakes eating minnows. Blue Jay **15** 1957: 179-180. [Not seen.]

McLoughlin, J. Notes on the Death Adder. N. Qd. Nat. **27** 120: 6.

McMahon, D. Reptile county records from Ohio. Trimon. Rep. Ohio herpet. Soc. **1** (3): 10.

(1) **Manaças, S.** Contribuição para o estudo dos répteis (Saurios e Leptotilopídeos) de Moçambique. An. Jta Inv. Ultramar, Lisboa **9** Tom. 3 1954: 165-172. [English & French summaries.]

(2) **Manaças, S.** Saurios e ofídios da Guiné portuguesa. An. Jta Inv. Ultramar, Lisboa **10** Tom. 4 1 1955: 185-213. [English & French summaries.]

(3) **Manaças, S.** Amphibians and reptiles of the islands of São Tomé and Príncipe and of Rolas Islet. Conf. int. Afr. acid. Sess. **6** 4: 179-192 2 figs. [Not seen.]

Manier, J. F., see Tuzet, O.

Marián, M. Das Leben der Tisza. IV. Die Tierwelt der Tisza auf Grund neuerer Sammlungen und Beobachtungen. II. Die Herpeto-Fauna. Acta biol., Szeged N.S. **4** 3-4: 227-228.

Mariétan, I. Les reptiles en Valais. Bull. murith. No. **75**: 91-102 8 figs.

Marques, M. Ação da adrenalina, noradrenalina e acetilcolina sobre o oviduto isolado de tartaruga *Chrysemys d'orbigny*. Rev. brasil. Biol. **17** 1 1957: 1-8 5 figs.

Marsille, L. L'identification des serpents. Penn ar Bed N.S. **2** 6 1955: 10-12.

Martin, P. & Mathieu, C. Premiers résultats de la sérothérapie spécifique des envenimations par *Ancistrodon rhodostoma* Boie au Sud-Vietnam. Bull. Soc. Path. exot. Paris **49** 1957: 843-846.

Martin, P. S. A biogeography of reptiles and amphibians in the Gomez Farias Region, Tamaulipas, Mexico. Misc. Publ. Mus. Zool. Univ. Mich. No. **101**: 1-102 7 pls.

(1) **Marx, H.** Catalogue of type specimens of reptiles and amphibians in Chicago Natural History Museum. Fieldiana, Zool. **36**: 409-496.

(2) **Marx, H.** Egyptian snakes of the genus *Psammophis*. Fieldiana Zool. **39**: 191-200.

(3) **Marx, H.** Sexual dimorphism in coloration in the viper *Cerastes vipera* L. Nat. Hist. Miscell. No. **164**: 1-2.

Maslin, T. P. Notes on the lizard *Eumeces multivirgatus gageae* in Colorado and Utah. J. Colo-Wyo. Acad. Sci. **4** 9: 50.

Maslin, T. P., Beidleman, R. G. & Lowe, C. H., jr. The status of the lizard *Cnemidophorus perplexus* Baird and Girard (Teiidae). Proc. U.S. nat. Mus. **108**: 331-345.

Mathieu, A., see Condé, B.

Mathieu, C., see Martin, P.

May, R.-M. & Thillard, M.-J. Recherches sur les changements de coloration du lézard *Anolis roquet* Lacépède. Bull. biol. **91** 1957: 186-202 9 figs.

Meade, G. P. Record life-span for a snake. [*L. doliota amaura*.] Copeia: **153**.

(1) **Medem, F. J.** The crocodilian genus *Paleosuchus*. Fieldiana Zool. **39**: 227-247 5 figs.

(2) Medem, F. [J.]. Informe sôbre reptiles colombianos, III. Investigaciones sôbre la anatomia craneal: distribución geográfica y ecologie de *Crocodylus intermedius* (Graves) en Colombia. *Caldasia* 8 37: 175-215 14 figs., map. [English summary.]

(3) Medem, F. [J.]. Problemes faunísticos de Colombia, El conocimiento actual sôbre la distribución geográfica y ecologia de los *Crocodylia* en Colombia. *Rev. Univ. Nac. Colombia* No. 23: 37-57 16 photog. 1 map.

(4) Medem, F. [J.]. Informe sôbre Reptiles Colombianos (11). El conocimiento actual sôbre la distribución geográfica de las Testudinata en Colombia. *Bol. Mus. Cienc. Nat. Caracas* 11 & 111 1-4 1956-1957 [1958]: 13-45. [Not seen.]

Medem, F., see Zangerl, R.

Menne, H. A. L. Een der biologische gevolgen van de myxomatose. *Lacerta* 16: 48.

Menzies, J. I. Breeding behaviour of the chamaeleon (*Chamaeleo gracilis*) in Sierra Leone. *Brit. J. Herpet.* 2: 130-132 1 fig.

(1) Mertens, R. Über die balearische Toro-Eidechse, *Lacerta lilfordi toronis*. *Senck. biol.* 39: 47-50 1 pl.

(2) Mertens, R. Neue Eidechsen aus Australien. *Senck. biol.* 39: 51-56 2 pls.

(3) Mertens, R. *Bitis heraldica*, eine oft verkannte Otter aus Angola. *Senck. biol.* 39: 145-148 2 pls.

(4) Mertens, R. Bemerkungen über die Warane Australiens. *Senck. biol.* 39: 229-264 8 pls.

(5) Mertens, R. Karl Patterson Schmidt zum Gedächtnis. *Natur u. Volk* 87 1957: 401-402 photograph.

(6) Mertens, R. Eine lebende Tuatera oder Brückenechse. *Natur u. Volk* 88: 15-21 2 figs.

(7) Mertens, R. Wie orientieren sich die Schildkröten? *Natur u. Volk* 88: 116-121 3 figs.

(8) Mertens, R. Als Zoologe in Australien. II. Erste Eindrücke: Die Südwestküste. III. Im Herzen des fünften Kontinents. V. Am Korallenmeer. *Natur u. Volk* 88: 213-225, 264-276; 11: 369-378 43 figs.

Metzger, D. E. Neomycin, acromycin and their administration in treatment of a respiratory ailment in a tortoise. *Herpetologica* 14: 56.

Meyer, J. Dichocephaly and polyembryony in the hognose snake. *Herpetologica* 14: 128.

Michard, V., see Lefrou, G.

Michl, H., see Kaiser, E.

Mille, R., Le Minor, L. & Capponi, M. Nouvelle contribution à l'étude des *Salmonella* du centre et du sud Viet-Nam. Recherches chez les lézards. *Bull. Soc. Path. exot.* 51: 198-209 figs.

Miller, M. R. & Wurster, D. H. Further studies on the blood glucose and pancreatic islets of lizards. *Endocrinology* 63: 191-200 6 figs.

Milstead, W. W. Observations on the natural history of four species of whip-tail lizard, *Cnemidophorus* (Sauria, Teiidae) in Trans-Pecos, Texas. *S.W. Nat.* 2 1957: 105-121. [Not seen.]

Minton, S. A. & Bechtel, H. B. Another Indiana record of *Cemophora coccinea* and a note on egg-eating. *Copeia*: 47.

Mitchell, F. J. Adaptive convergence in Australian reptiles. *Aust. Mus. Mag.* 12: 314-317 3 figs.

Mitra, B., see Ganguly, D. N.

Młynarski, M. *Emys orbicularis* (L.) in the Olsztyn voivodship. *Ochr. Przyr.* 22 1954: 201-216 2 figs. [English summary.]

Mohamed, A. H. & Zaki, O. Effect of the black snake toxin on the gastrocnemius-sciatic preparations. *J. exp. Biol.* 35: 20-26 4 figs.

Morice, J. Animaux marins comestibles des Antilles francaises. *Rev. Trav. Inst. Pêches marit.* 22 (1): 85-104.

Morris, R. C. Rat-snakes mating. *J. Bombay nat. Hist. Soc.* 55: 366.

(1) Mosimann, J. E. An analysis of allometry in the Chelonian shell. *Rev. canad. Biol.* 17: 137-228 34 figs.

(2) Mosimann, J. E. The evolutionary significance of rare matings in animal populations. *Evolution* 12: 246-261.

(3) Mosimann, J. E. Comments on Mexican turtles of the genus *Geoemyda*. Sexual dimorphism in the Snapping turtle *Chelydra serpentina*. Ann. ACFAS 24 : 75, 76.

Mountfort, G. Portrait of a wilderness. The story of the Coto Donana Expeditions. London (Hutchinsons) 1958 pp. 240 frontis. col. 59 pls. text illust.

Mowbray, L. S. & Caldwell, D. K. First record of the Ridlèy turtle from Bermuda, with notes on other sea turtles and the turtle fishery in the islands. Copeia : 147-148.

Muić, N. & Piantanida, M. The properties of the *Vipera ammodytes* snake venom. Bull. int. Acad. jougosl. Sci. N.S. No. 9 1953 : 159-166 10 figs.

Müller-Gehring, R. Eine Methode, lebende Amphibien und Reptilien abzugießen. Präparator 1 1955 : 27-28 1 fig.

Murakami, M., Ban, F. & Aiura, S. Ueber die histologische Studie des subkommissuralorgans des *Gecko japonicus*. Kurume Med. J. 4 1957 : 8-17. [Not seen.]

Murie, O. J. A field guide to animal tracks. Boston (Houghton Mifflin Company) 1954 : pp. xxi (1), 374, (1); 196 figs.

Musacchia, K. J., see Brumleve, S. J.

Myers, C. W. A possible introduction of the snake *Typhlops* in the United States. Copeia : 338.

Nair, S. G. A study of the plasma proteins of some reptiles and mammals. J. Anim. Morph. Physiol. 5 : 95-100.

Neess, J., see Bundy, R. E.

(1) Neill, W. T. The rapid mineralization of organic remains in Florida, and its bearing on supposed Pleistocene records. Quart. J. Florida Acad. Sci. 20 7 1957 : 1-13.

(2) Neill, W. T. The occurrence of amphibians and reptiles in saltwater areas, and a bibliography. Bull. Mar. Sci. Gulf & Caribbean 8 1 : 1-97.

(3) Neill, W. T. Historical biogeography of present-day Florida. Bull. Florida State Mus. Biol. Sci. 2 7 1957 : 175-220.

Neill, W. T., Gut, H. J. & Brodkorb, P. Animal remains from four pre-ceramic sites in Florida. Amer. Antiquity 21 4 1956 : 383-395.

(1) Nero, R. W. Observations at a Garter snake hibernaculum. Blue Jay 15 1957 : 116-118. [Not seen.]

(2) Nero, R. W. Records of the horned toad in Saskatchewan. Blue Jay 15 1957 : 119-120. [Not seen.]

Nielsen, E. To sjældne gaester i Danmark. Nat. Verd., Kbh. Jan. 1957 : 22-24 2 figs.

Niftrik, J. J. van. Swallowing of young by snakes. Afr. Wild Life 12 : 253.

(1) (Nikitenko, M. F.) [On the rôle played by the central nervous system in the process of tail regeneration following autotomy in the lizard.] C.R. Acad. Sci. URSS 119 4 : 834-836 2 figs. [In Russian.]

(2) Nikitenko, M. F. The role of the central nervous system in regeneration of the shed tail in lizards. Dokl. Akad. Nauk SSSR (Transl.) Biol. Sci. 119 : 186-188 2 figs.

Noel, R. Telosomes et manchon peritéloneuritique leurs rapports reciproques dans la synapse myo-neurale. Acta Anat. 30 1957 : 530-541. [Not seen.]

Norris, K. S. The evolution and systematics of the Iguanid genus *Uma* and its relation to the evolution of other North American desert reptiles. Bull. Amer. Mus. nat. Hist. 114 : 247-326 4 pls. 17 figs.

North, E. A. & Doery, H. M. Antagonism between the actions of staphylococcal toxin and Tiger Snake venom. Nature, Lond. 181 : 1542-1543.

(Novikov, G. A.) III. Reptilia. Zhivot. Mir 5 : 557. [In Russian.]

Obst, F. J. Hinweise zur Pflege einiger mittelasiatischer Echsen. Aquar. Terrar. Z. 11 : 149-151 1 fig.

(1) Oliver, J. A. The Taipan, Australia's deadliest snake. Anim. Kingd. 61 : 23-26 2 photographs.

(2) Oliver, J. A. The not-so-frightful Copperhead. Anim. Kingd. 61 : 40-46 11 figs.

(3) **Oliver, J. A.** Review of:—Freiberg, M. A., *Vida de Batracios y Reptiles Sudamericanos*. Copeia : 63.

Olsen, O. W. Tragedy at the nest of a Lewis's Woodpecker. *Turtox News* 36 2 : 74 photograph.

Oomen, H. C. J. Geboorte bij de Gladde slang. *Levende Nat.* 61 12 : 265-267 8 figs.

Ostrom, J. H., see Colbert, E. H.

Ozaki, H. Evolution of reptiles. *Nat. Sci. & Mus.*, Tokyo 25 3-4 : 32-36 6 figs. [Title only in English.]

Pacheco, I. P., see Sasso, M. da S.

Pagden, H. T. A snake's last fling. *Malay Nat. J.* 13 : 93-94.

Pandalai, K. R. The subcommisural organ in the garden lizard *Calotes versicolor*. *Curr. Sci.* 27 : 173-174 3 figs.

Pannese, E. L'architettura gliale della sostanza bianca del midollo spinale di vertebrati I-Indagini anatomiche comparative. *Z. Anat. Entw. Gesch.* 120 1957 : 173-197. [Not seen.]

Pape, H. Erfahrungen über Abgüsse technisch anspruchsvoller oder schwieriger Modelle. *Natur u. Volk* 88 : 390-392 2 figs.

Parmeggiani, P. L. L'attività elettrica spontanea del cervelletto di *Lacerta viridis* e le sue modificazioni per effetto d'impulsi afferenti. *Arch. Sci. Biol. Bologna* 42 : 1-30 26 figs. [Not seen.]

Parmeggiani, P. L., see Crepax, P.

Parrish, F. K. Miscellaneous observations on the behaviour of captive sea turtles. *Bull. mar. Sci. Gulf & Caribbean* 8 : 348-355.

Parrish, H. M. The nature of poisonous snakebites in epidemiology, diagnosis and treatment. *Vet. Med. Chicago* 53 : 197-203 3 figs.

Parrish, H. M. & Thompson, R. E. Human envenomation from bites of recently milked rattlesnakes : a report of three cases. *Copeia* : 83-86.

Parsons, T. S. The choanal papillae of the Cheloniidae. *Breviora* No. 85 : pp. 5 2 pl.

Pasteur, G. & Bons, J. Sur l'herpétofaune marocaine (Leptotyphlopidae, Colubrinés, Emydinés). *Bull. Soc. Sci. nat. Maroc* 37 : 137-143 map.

Payne, K. E., see Ferguson, D. E.

Peabody, F. E. A Kansas drouth recorded in growth zones of a bullsnake. *Copeia* : 91-94 1 pl.

Peabody, F. E. & Savage, J. M. Evolution of a coast range corridor in California and its effect on the origin and dispersal of living amphibians and reptiles. *Publ. Amer. Ass. Advanc. Sci.* 51 : 159-186 19 figs.

Penha, A. M., see Schreiber, G.

(1) **Penyapol, A.** A preliminary study of the sea turtles in the Gulf of Thailand. *Proc. 9th Pacif. sci. Congr.* 16 : 136.

(2) **Penyapol, A.** A preliminary study of the sea turtles in the Gulf of Thailand. *Nat. Hist. Bull. Siam Soc.* 17 : 23-36 9 pls. 2 maps.

Pera, L. Sull'innervazione dell'intestino nei rettili. *Atti Soc. ital. Anat. XVIII Convegno 1957 [1958]* : 469-471.

Percy, Lord Richard, see Ridley, M. W.

Perseca, T., see Preda, V.

Peters, G. Die Zauneidechse des Kleinen Kaukasus als besondere Unterart *Lacerta agilis brevicaudata* ssp. n. *Zool. Jb. (Syst.)* 86 : 127-138 7 figs.

Peters, J. A. Miscellaneous notes on Ecuadorian snakes. *Herpetologica* 14 : 181-182.

Pettus, D. Water relationships in *Natrix sipedon*. *Copeia* : 207-211.

(1) **Pézar, A. G.** Influence de la maturité et de la castration par les rayons X sur les boules colorées de la rétine des chéloniens. *C.R. Soc. Biol. Paris* 152 : 414-416.

(2) **Pézar, A. G.** Influence de la lumière et de l'activité spermatogénétique sur les boules colorées de la rétine des Oiseaux et des Sauriens. *C.R. Soc. Biol. Paris* 151 1957 : 840-842.

Phelan, R. L., see Cowles, R. B.

Philippe-Knoepfler, L., see Duguy, R.

Phillips, W. W. A. Some observations on the fauna of the Maldive Island. Part IV. Amphibians and reptiles. *J. Bombay nat. Hist. Soc.* 55 : 217-220.

Piantanida, M., see Muić, N.

Piechocki, R., see Haug, A.

Pigulevski, N. A., see Bazhanov, V. S.

Pimental, R. A. Southern occurrence of the sharp-tailed snake in a unique community. *Herpetologica* 14 : 169-170.

Pissarro, C. Tartarugas marinhas do litoral português. *Naturalia* 7 1-4 : 164-167 2 pls. 3 figs.

Pitman, C. R. S. Snake and lizard predators of birds. *Bull. Brit. orn. Cl.* 78 (5) : 82-86; (6) : 99-104; (7) : 120-124.

Poglayen, I. & Smith, H. M. Noteworthy herptiles from Mexico. *Herpetologica* 14 : 11-15 1 pl.

Pollack, J. A., see Hamilton, W. J.

Pope, C. H. Fatal bite of captive African rear-fanged snake (*Dispholidus*). *Copeia* : 280-282.

Pope, C. H., see Wahlert, G. von, for review of Reptiles round the World.

Potous, P. L. No tears for the crocodile. London, 188 pp. 30 photographs. [Not seen.] *J. Bombay nat. Hist. Soc.* 55 : 329-332. [Review.]

Prakash, R. Structure, development and phylogeny of the impulse conducting (connecting) tissue of the vertebrate heart. *J. Anat. Soc. India* 6 1957 : 1-10.

Prakash, R. & Raghavaiah, S. C. The heart of the Indian flying lizard, *Draco dussumieri*, with special reference to the conducting system. *J. Anat. Soc. India* 6 1957 : 107-114.

Preda, V. & Persecă, T. Recherches sur l'histogénèse régénérative des barbillons du poisson, de la peau et de la queue chez certaines espèces de reptiles. *Stud. Univ. V. Baber, Cluj* 3 7 : 277-293 10 figs.

Proctor, V. W. The growth of *Basilecladia* on turtles. *Ecology* 39 : 634-645 3 figs.

Quick, A. J., see Georgatsos, J. G.

Rabor, D. S., Alcalá, A. C. & Gonzales, R. B. A brief list of the land invertebrates of Negros Island. *Silliman J.* 5 : 286-300. [Not seen.]

Radomski, J. L. & Deichmann, W. B. The relationship of certain enzymes in cobra and rattlesnake venoms to the mechanism of action of these venoms. *Biochem. J.* 70 : 293-297 3 figs. [Not seen.]

(1) **Radomski, J. L. & Deichmann, W. B.** Comparative pharmacological studies of *Crotalus adamanteus* and *Naja flava* venoms. *Fed. Proc.* 16 1957 : — ? [Not seen.]

Radovanović, M. Einige eigentümliche Lurche und Kriechtiere des jugoslawischen Karstgebietes. *Verh. dtsh. zool. Ges.* 1957 [1958] : 512-516.

Rageau, J., see Gail, R.

Raghavaiah, S. C., see Prakash, R.

Rajyalakshmi, K., see Ganapati, P. N.

Ramirez, J. R., see Dessauer, H. C.

Rancurel, P., see Gabe, M.

Rand, A. S. A new subspecies of *Chamaeleo jacksoni* Boulenger and a key to the species of three horned chamaeleons. *Breviora* No. 99 : 1-8.

Ray, C. & Coates, C. W. Record and measurements of a leatherback turtle from the Gulf of Maine. *Copeia* : 220-221.

Reece, P. J. Snake observations. *Afr. Wild Life* 12 : 77.

(1) **Reed, C. F.** Contributions to the herpetology of Maryland and Delmarva. No. 17 : Southeastern herptiles with Northern limits on coastal Maryland, Delmarva, and New Jersey. *J. Wash. Acad. Sci.* 48 : 28-32 16 maps.

(2) **Reed, C. F.** Contributions to the herpetology of Maryland and Delmarva, 13 : Piedmont herpetofauna on coastal Delmarva. *J. Wash. Acad. Sci.* 48 : 95-99 17 maps.

Reichel, H. Die Herzdynamik unter dem einfluss des periphenen Kreislaufs. *Verh. Deut. Gesell. Kreislaufforschung* 22 1956 : 3-25. [Not seen.]

Reichel, H. & Bleichert, A. Vergleichende Untersuchungen über den zeitlichen Verlauf der "Aktivierung" während der Einzelkontraktion im Skelett- und Herzmuskel der schildkröte. *Naturwissenschaften* 5 1957 : 123. [Not seen.]

Reichel, H., see Bleichert, A.

Reid, J. A. Gliding by the Green Crested lizard [*Calotes? cristatellus*]. *Malay. Nat. J.* 12 : 119.

Reilly, V. M. The Queensland Gridle Snake (*Rhinelaps warra* (de Vis)). *N. Qd. Nat.* 27 120 : 7.

(1) **Rekum, M. van.** En nog een andere *Anolis*. *Lacerta* 16 : 25-26.

(2) **Rekum, M. van.** De Mopskop-leguaan, *Uranoscodon superciliosum*. *Lacerta* 16 : 60-62 photograph.

[**Reuben, D. E.**] Review on Potous, P. L., No tears for the crocodile. *See* J. Bombay nat. Hist. Soc. 55 : 329-332.

Richmond, N. D. The status of the Florida snapping turtle *Chelydra osceola* Stejneger. *Copeia* : 41-43.

Rider, D. S. "Note on *Psammophis s. sibilans* food." J. Herpet. Ass. Rhodesia, No. 4 : 7.

Ridley, M. W. & Percy, Lord Richard. The exploitation of Sea Birds in Seychelles, List of animals, Append. iv. Colonial Office Res. Study No. 25 : 78 pp. figs.

Riemer, W. J. Longitudinal striping as a pattern modification in the snake *Pituophis melanoleucus*. Nat. Hist. Miscell. No. 165 : 1-9 2 figs.

Ringuelet, R. A. & Aramburu, R. H. Enumeracion sistematica de los vertebrados de la provincia de Buenos Aires. La Plata, Arg. 1957 : 1-94. [Not seen.]

Roberts, M. F. Snakes—How to keep snakes as pets. T. F. H. Public, Jersey City, 1957 : 1-34. [Not seen.]

(1) **Robinson, P. L.** An unusual sauropsid dentition. J. Linn. Soc. (Zool.) 43 No. 291 1957 : 283-293 2 pls. 3 figs.

(2) **Robinson, P. L.** The Mesozoic fissures of the Bristol Channel area and their vertebrate faunas. J. Linn. Soc. (Zool.) 43 No. 291 1957 : 260-282 4 pls. 6 figs.

Robinson, R. H. A size record for the common garter snake. *Herpetologica* 13 : 256.

(1) **Roding, G. M.** Waarnemingen aan slangen in het Natuurhistorisch Museum te Enschede. *Natura*, Amst. 55 : 146-148 1 fig.

(2) **Roding, G. M.** Slangen in Twente. *Levende Nat.* 61 : 82-84 1 fig.

Roelofs, W. 'n "Beendergecko." *Lacerta* 16 : 40.

(1) **Romer, J. D.** Partial albinism in a Chinese cobra. *Copeia* : 334.

(2) **Romer, J. D.** Occurrence of the Sea Snake *Hydrophis ornatus ornatus* (Gray) near Hong Kong. *Hong Kong Univ. Fisheries Jnl.* No. 2 : 129 photograph.

Rossman, D. A. A record size midland water snake from Illinois. *Herpetologica* 13 : 280.

(1) **Rotermundt, J. W.** Een hardnekkige aandoening bij waterschildpadden en de bestrijding ervan. *Lacerta* 16 : 29-31.

(2) **Rotermundt, J. W.** Een doodgewoon glazen bakje . . . *Lacerta* 16 : 37-38.

Roth, C. & Braun, E. Zur Funktion des Parietalanges der Blindschleiche *Anguis fragilis* (Reptilia, Lacertila, Anguidae). *Naturwissenschaften* 45 : 218-219.

(1) **Rotter, J.** Die Reise nach Transkaukasien. *Aquar. u. Terr.* 5 : 286-291 9 figs.

(2) **Rotter, J.** Ein neues Ersatzfutter für allesfressende Reptilien. *Aquar. u. Terrar.* 5 : 331.

(3) **Rotter, J.** Beobachtungen an Halysschlangen. *Aquar. Terrar. Z.* 11 : 216-218 1 fig.

(1) **Roze, J. A.** On Hallowell's type specimens of Reptiles from Venezuela in the Collection of the Academy of Natural Sciences of Philadelphia. *Notul. Naturae*, Philad. No. 309 : 1-4.

(2) **Roze, J. A.** Resultados zoológicos de la expedición de la Universidad Central de Venezuela a la región del Auyantépi en la Guayana Venezolana, Abril de 1956. 5. Los reptiles del Auyantépi, Venezuela, basándose en las colecciones de las expediciones de Phelps-Tate, del American Museum of Natural History, 1937-1938, y de la Universidad Central de Venezuela, 1956. *Acta biol. venezuel.* 2 : 243-270 11 figs. [English summary.]

(3) **Roze, J. A.** Los reptiles del Chimanta Tepui (Estado Bolívar, Venezuela) colectados por la expedición botánica del Chicago Natural History Museum. *Acta biol. venezuel.* 2 : 299-314 4 figs. [English summary.]

(4) **Roze, J. A.** A new species of the genus *Urotheca* (Serpentes: Colubridae) from Venezuela. [*U. williamsi*, sp. nov.] *Breviora* No. 88 : 1-5.

(1) **Ruiter, L. C. de.** Aziatische cobra's. *Lacerta* 16 : 27-29.

(2) **Ruiter, L. C. de.** Zeeslangen 1. *Lacerta* 16 : 86-87.

(3) **Ruiter, L. C. de.** Zeeslangen II. *Lacerta* 17 : 1-2 1 fig.

Rush, W. A., see Thomas, L. A.

Rust, R. Junge Riesenschlangen im Zimmerterrarium. *Aquar. Terrar. Z.* 11 : 21-23 photo.

Rybak, B. Effet du niveau des valvules sino-auriculaires de l'excitation vagale observé directement par ouverture totale du coeur en place de Tortue grecque. *C.R. Acad. Sci. Paris* 246 : 1905-1908.

Sacchi, C. F. Notes hydrobiologiche sur la faune de Minorque. *Vie et Milieu* 8 : 327-328.

(1) **Sachs, W. B.** Het vensterterarium. *Lacerta* 16 : 26-27.

(2) **Sachs, W. B.** Over de verzorging van jonge leguanen. *Lacerta* 16 : 55-58 3 photographs.

Sadleir, R. M. An observation on the drinking of *Trachysaurus rugosus*. *W. Aust. Nat.* 6 : 152-153.

Saint Girons, H. Croissance et fécondité de *Vipera aspis* (L.). *Vie et Milieu* 8 : 265-286 10 figs.

Sanjeeva Raj, P. J. Egg-laying habits of sea turtles described in the Tamil Sangam literature. *J. Bombay nat. Hist. Soc.* 55 : 361-363.

Sasso, W. da S., Castro, N. M. de & Pacheco, I. P. Histochemical study of the pigment found in the epithelium of the kidney of the *Philodryas schottii* (Schlegel). *Histochem. & Cytochem.* 6 : 233-236 2 figs.

(1) **Savage, J. M.** The Iguanid lizard genera *Urosaurus* and *Uta*, with remarks on related groups. *Zoologica N.Y.* 43 : 41-54 6 figs.

(2) **Savage, J. M.** Review of:—Darlington, P. J., *Zoogeography*. *Copeia* : 153-155.

(3) **Savage, J. M.** The concept of ecologic niche, with reference to the theory of natural coexistence. *Evolution* 12 : 111-112.

Savage, J. M., see Peabody, F. E.

Saviano, M. & Girolamo, A. De. Osservazioni istofisiologiche sul tessuto insulare dei Cheloni. *Arch. Sci. Biol. Bologna* 42 : 346-353 5 pls.

(1) **Schatz, A.** Some biochemical and physiological considerations regarding the extinction of the dinosaurs. *Proc. Pa. Acad. Sci.* 31 1957 : 26-36.

(2) **Schatz, A.** A reply to Cowles "comments on the Schatz theory of dinosaurian extinction." *Proc. Pa. Acad. Sci.* 32 : 267-269.

Schilling, J. The glycogenolytic action of adrenaline and noradrenaline on the isolated liver of the tortoise. *Acta Physiol. Latinoamer.* 7 1957 : 205-211. [Not seen.]

(1) **Schmidt, K. P.** The nature of the Natural History Museum. *Curator* 1 : 20-28.

(2) **Schmidt, K. P.** Some rare or little known Mexican coral snakes. *Fieldiana Zool.* 39 : 201-212.

Schmidt, K. P. Obituary by Hellmich, W.

Schmidt, K. P. & Inger, R., see Anon. (3).

Schmidt, K. P., see E. H. C.

Schmidt, K. P., see Emerson, A. E.

Schmidt, K. P., see Mertens, R.

Schmidt, K. P., see Pope, C.

Schmidt, W. J. Natürliche Färbung von Reptilien- und Fischzähnen durch Eisenoxyd. *Zool. Anz.* 161 : 168-178 6 figs.

Schmidt-Nielsen, K. & Fange, R. Salt glands in marine reptiles. *Nature, Lond.* 182 : 783-785 2 figs.

(1) **Schnurrenberger, H.** Het leven van *Aspis cerastes* (Linné) in de orijne natuur. *Lacerta* 16 : 58-60 6 photographs. [English summary.]

(2) **Schnurrenberger, H.** Aquatiele levende *Psammophis schokari* in Fezzan. *Lacerta* 16 : 70-71 2 photographs.

Schnurrenberger, H., see Kramer, E.

Schreiber, G., Hoge, A. R., Belluomini, H. W. & Penha, A. M. Further researches on intersexuality in a highly isolated population of snakes. *Proc. 10th internat. Congr. Genetics* 2 : 254-255.

Schuknecht, H. F., see Foulkes, R. H.

(1) **Schwartz, A.** A new Gecko of the *Sphaerodactylus decoratus* group from Cuba. [*S. d. drapetiscus*, subsp. nov.] *Proc. biol. Soc. Wash.* 71 : 27-36 1 fig.

(2) **Schwartz, A.** A new subspecies of *Anolis equestris* from Eastern Cuba. [*A. e. thomasi*, *subsp. nov.*]. *Herpetologica* **14** : 1-7 1 map.

Schwartz, A., see Duellman, W. E.

Schwartz, A., see Zug, G. R.

Scortecci, G. Esplorazione dello Ahl Mascat occidentale e centrale. *Boll. Soc. Geogr. Ital.* No. 4-5 : 1-33 16 figs. 1 map. [English summary.]

Scortecci, V., see Cherchi, M. A.

Seguy, E., see Germaine, L. A. P.

Serrato, G., see Cherchi, M. A.

Seshadri, C. Water conservation in *Uromastix hardwickii* (Gray), with a note on the presence of Mullerian ducts in the male. *J. Zool. Soc. India* **9** 1957 : 103-113. [Not seen.]

Sethna, K. R. Rat-snakes 'mating.' *J. Bombay nat. Hist. Soc.* **55** : 173.

Sexton, O. J. The relationship between the habitat preferences of hatchling *Chelydra serpentina* and the physical structure of the vegetation. *Ecology* **39** : 751-754 6 figs.

Shah, R. V., see George, J. C.

Shannon, F. A., see Humphrey, F. L.

Shannon, J. E., see Clark, H.

Sharp, J. E. The vertebrates of the Dernford district. A Survey of Dernford Fen, Sawston, Cambridgeshire 1950-58 : 42-44.

(1) **Shaw, C. E.** Longevity of snakes in the United States as of January 1, 1958. *Copeia* : 221.

(2) **Shaw, C. E.** All cobras have hoods. *Zoonooz* **31** : 10-13 4 figs.

(3) **Shaw, C. E.** Desert snakes go forth at night. *Zoonooz* **31** : 10-14 figs.

Shreve, B. & Gans, C. *Thamnophis bovallii* Dunn rediscovered (Reptilia, Serpentes). *Breviora* No. 83 : pp. 7 3 figs.

Siemens, A. H. Case history of an *Atractaspis bibronii* bite. *J. Herpet. Ass. Rhodesia*, No. 4 : 5-6.

Sievers, K. Haltung und Zucht von *Neopareas bicolor*. *Aquar. Terrar. Z.* **11** : 246-247.

Sirugue, F., see Dughi, R.

Sisken, B., see Clark, H.

Skoknic, A. Contribuciones al estudio de la pigmentacion en los vertebrados. V. Mecanismos nerviosos y humorales en la regulacion pigmentaria de los reptiles. *Rev. Med. Vet.* **6** 1957 : 5-23. [Not seen.]

(Sles, I. S.) [On the mutual hibernation of snakes and adders.] *Priroda* **11** : 114. [In Russian.]

Smith, F. G. W. Sea snakes are real. *Sea Frontiers, Bull. Int. Oceanog. Found.* **3** 1957 : 87-93. [Not seen.]

(1) **Smith, H. M.** Evolutionary lines in tooth attachment and replacement in reptiles: Their possible significance in mammalian dentition. *Trans. Kansas Acad. Sci.* **61** : 216-225 8 figs.

(2) **Smith, H. M.** Handlist of the snakes of Panama. *Herpetologica* **14** : 222-224.

(3) **Smith, H. M.** Total regeneration of the carapace in a Box Turtle. *Turtlox News* **36** : 234-238 5 figs.

(4) **Smith, H. M. & Chrapliwy, P. S.** New and noteworthy Mexican herptiles from the Lidicker Collection. *Herpetologica* **13** : 267-271.

(5) **Smith, H. M. & Grant, C.** Noteworthy herptiles from Jalisco, Mexico. *Herpetologica* **14** : 18-23 2 figs.

(6) **Smith, H. M. & Grant, C.** New and noteworthy snakes from Panama. *Herpetologica* **14** : 207-215.

(7) **Smith, H. M. & Grant, C.** The proper names for some Cuban snakes: an analysis of dates of publication of Ramon de la Sagra's *Historia Natural de Cuba* and of Fitzinger's *Systema Reptilium*. *Herpetologica* **14** : 215-222.

(8) **Smith, H. M. & James, L. F.** The taxonomic significance of cloacal bursae in turtles. *Trans. Kansas Acad. Sci.* **61** : 86-96.

(9) **Smith, H. M. & List, J. C.** The type of the blind snake *Stenostoma albifrons*. *Herpetologica* **13** : 271.

Smith, H. M., see Alvarez del Toro, M.

Smith, H. M., see FitzSimons, D. C.

Smith, H. M., see Poglayen, I.

Smith, H. M., see Williams, K. L.

Smith, J. L. B. The deadly sea-snakes. *Veld & Vlei* **3** (10) : 20-21 & 26 2 figs.

Smith, J. N. Comparative detoxication. 5. Conjugation of aromatic acids in reptiles: formation of ornithuric acid, hippuric acid and glucuronides. Biochem. J. **69** : 509-516 1 fig. [Not seen.]

(1) Smith, P. W. & Hensley, M. M. The mud turtle, *Kinosternon flavescens stejnegeri* Hartweg, in the United States. Proc. biol. Soc. Wash. **70** 1957 : 201-203.

(2) Smith, P. W. & Hensley, M. M. Notes on a small collection of amphibians and reptiles from the vicinity of the Pinacate Larva Cap in Northwestern Sonora, Mexico. Trans. Kansas Acad. Sci. **61** : 64-76 4 figs.

Smith, P. W., see Crooke, F. P.

Sochurek, E. Zur Verbreitung der Lurche und Kriechtiere im Burgenländ. Burgenländ. Heimat. Blatt. **20** : 149-151.

Sondhi, K. C. The hyoid and associated structures in some Indian reptiles. Ann. Zool., Agra **2** (11) : 157-239 6 pls. 22 figs.

Sporn, C. C. Further observations on the Mountain Devil in captivity. W. Aust. Nat. **6** : 136-137.

Staedeli, J. H. New hope for giants of the past. Zoonooz **31** (12) : 3-4 2 figs.

Starrett, P., see Uzzell, T. M.

(1) Stebbins, R. C. A new alligator lizard from the Panamint Mountains, Inyo County, California. [*Gerrhonotus panamintinus*, sp. nov.]. Amer. Mus. Novit. No. 1883 : 1-27 6 figs.

(2) Stebbins, R. C. An experimental study of the "third eye" of the tuatara. Copeia : 183-190 4 figs.

Stebbins, R. C. & Eakin, R. M. The role of the "Third Eye" in reptilian behavior. Amer. Mus. Novit. No. 1870 : 1-40 14 figs.

Stefan, Y., see Vivien, J. H.

Stemmler-Morath, C. Einige Beobachtungen an der Brückenechse. Aquar. Terrar. Z. **11** : 151-152 1 fig.

Stephen-Hassard, Q. M. The timeless tortoise. Zoonooz **31** (6) : 13-15 3 figs.

Sternberg, C. M. A juvenile Hadrosaur from the Olman Formation of Alberta. Bull. nat. Mus. Can. No. 136 1955 : 120-122 figs.

Sternfeld, R. Die Reptilien und Amphibien Mitteleuropas. Quelle u. Meyer, Heidelberg 1952 : 94 pp. 22 figs. 30 col. pls. [Not seen.]

Stevenson, O. R., Coulson, R. A. & Hernandez, T. Effects of hormones on carbohydrate metabolism in the alligator. Amer. J. Physiol. **191** 1957 : 95-102.

Steward, J. W. The dice snake (*Natrix tessellata*) in captivity. Brit. J. Herpet. **2** : 122-125.

(1) Steyn, W. The permeability of the lacertilian epiphysis to vital dyes in relation to atropine and pilocarpine administration. S. Afr. J. Sci. **54** : 87-92 1 fig.

(2) Steyn, W. The pineal circulation in some lizards. S. Afr. J. Sci. **54** : 143-147 4 figs.

(1) Stolk, A. Fluorescent mast-cell reaction in precancerous skin of the lizard *Lacerta agilis*. Nature, Lond. **182** : 1177-1178.

(2) Stolk, A. Tumours in reptiles. II-III. Proc. Akad. Wet. Amst. **61C** : 115-132 12 figs.

(3) Stolk, A. Tumours in reptiles. III. Proc. Akad. Wet. Amst. **61C** : 192-200 7 figs.

(4) Stolk, A. Special condition of the interphase nucleus in normal and tumorous cells of fishes, amphibians and reptiles. IA-B. Proc. Akad. Wet. Amst. **61C** : 395-416 12 figs.

(5) Stolk, A. Tumours of reptiles. 4. Multiple osteomas in the lizard *Lacerta viridis*. Beaufortia **7** (79) : 1-9 4 figs.

Storm, R. M., see Ferguson, D. E.

Stuart, L. C. A study of the herpetofauna of the Uaxactun-Tikal area of Northern El Peten, Guatemala. Contr. Lab. Vertebr. Biol. Univ. Mich. No. **75** : 1-30.

Stugren, B. Noi contributii la problema originii faunei herpetologice din Republica Populară Română în Lumina glaciatiunilor. Bul. Stiintific. Biol. Stiinte Agric. Zool. **9** 1 1957 : 35-47.

Sturn, A. & Brattstrom, B. H. A serial abnormality in the painted turtle. Herpetologica **13** : 277-278 1 fig.

Sutherland, I. D. W. The "combat dance" of the timber rattlesnake. *Herpetologica* **14**: 23-24.

Sweetman, H. L. The principles of biological control. Dubuque, Iowa: i-xii, 1-560 328 figs.

(1) **Swinton, W. E.** Fossil Amphibians and Reptiles. 2nd edn. Lond.: British Museum, (Nat. Hist.)

(2) **Swinton, W. E.** Dinosaur brains. *New Scientist*. **4**: 707-709 7 figs.

(**Syroyechkovsky, E. E.**) [Ecological and geographical essay of the Reptile-fauna in the western part of the desert Kyryl-Kum.] *Zool. Zh.* **37** (2): 240-250 6 figs. [In Russian with English summary.]

Szabó, I. Contributions à l'herpéto-faune de la montagne Dunazug entre Szentendre, Visegrád et Esztergom. *Állat. Közlem.* **45** 3-4 1956: 123-131 4 pls. 1 fig. [French summary.]

Székely, Gy., see Szentágothai, J.

Szentágothai, J. & Székely, G. Resorption argentaffiner Substanz der Hypophyse in die Eminentia medialis bei Lacertilien. *Acta biol. Acad. Sci. hung.* **8** 3: 295-304 3 figs. [English & Russian summaries.]

Szunagogy, J. A new occurrence of the *Ablepharus kitaibeli kitaibeli* Bibron and Bory in Hungary. *Állat. Közlem.* **44** 1-2 1954: 61-62. [English etc. summaries.]

Takashima, H. A synopsis of the reptiles of Japan. *Misc. Rep. Yamashina Inst. Orn. Zool.* No. 12: 486-493. [In Japanese.]

(1) **Tanner, W. W.** A taxonomic and ecological study of the western skink (*Eumeces skiltonianus*). *Gr. Basin Nat.* **17**: 59-94 8 pls.

(2) **Tanner, W. W.** A new skink of the *multivirgatus* group from Chihuchua. [*Eumeces multilineatus*, sp. nov.]. *Gr. Basin Nat.* **17**: 111-117 1 fig.

(3) **Tanner, W. W.** Two new skinks from Durango, Mexico. *Gr. Basin Nat.* **18**: 57-62 2 figs.

(4) **Tanner, W. W.** Herpetology of Glen Canyon of the Upper Colorado River Basin. *Herpetologica* **14**: 193-193.

(5) **Tanner, W. W.** Herpetological range extensions. *Herpetologica* **14**: 195-196.

Tasman, K. Some Rhodesian geckos. *Proc. Rhod. sci. Ass.* **46**: 135-146 7 figs.

(**Tatarinov, L. P.**) [Evolution of sound-transmitting apparatus in the lower terrestrial vertebrates and the origin of reptiles.] *Zool. Zh.* **37** (1): 57-74 15 figs. [In Russian with English summary.]

Taylor, E. H. & Elbel, R. E. Contribution to the herpetology of Thailand. *Univ. Kans. sci. Bull.* **38** 2: 1033-1189 36 figs.

Taylor, E. H. & Weyer, D. Report on a collection of amphibians and reptiles from Harbel, Republic of Liberia. *Univ. Kans. sci. Bull.* **38**: 1191-1230.

Test, F. H. Butler's garter snake eats amphibian. *Copeia*: 151.

Thiel, A. Licht- und elektronenmikroskopische Studie über das Nierenkörperchen der Griechischen Landschildkröte (*Testudo graeca* L.). *Z. Zellforsch.* **47**: 288-319 23 figs. [Not seen.]

Thiel, A., see Bargmann, W.

Thillard, M. J., see May, R.-M.

Thomas, L. A., Eklund, C. M. & Rush, W. A. Susceptibility of garter snakes (*Thamnophis* Spp.) to western equine encephalomyelitis virus. *Proc. Soc. exp. Biol. Med.* **99**: 698-700.

Thompson, E. C., see Altland, P. D.

Thompson, R. E., see Parrish, H. M.

(1) **Tinkle, D. W.** The systematics and ecology of the *Sternothaerus carinatus* complex. *Tulane Stud. Zool.* **6**: 1-56 57 figs.

(2) **Tinkle, D. W.** Experiments with censuring of southern turtle populations. *Herpetologica* **14**: 172-175.

Tondo, C. V. Paper electrophoresis differences between turtle and human serum. *Rev. bras. Biol.* **18**: 105-108 3 figs. chart.

Tucker, R. Taxonomy of the salivary glands of vertebrates. *Syst. Zool.* **7**: 74-83.

Turner, F. B. Food of *Leptodeira annulata cussiliris*. *Herpetologica* **14**: 192.

Tuzet, O. & Manier, J. F. La spermatogénèse de *Brookesia* sp., Chamaeleontidae malgache. *Mém. Inst. Sci. Madagascar* **12A**: 177-187 4 figs.

Uriel, J., Fine, J. M., Courcon, J. & Le Bourdelles, P. Contribution à l'étude des protéines et lipoprotéines des sérums animaux. Bull. Soc. Chim. Biol. **39** 1957 : 1415-1427. [Not seen.]

(1) Uzzell, T. M. Generic status of the teiid lizard *Goniptychus bicolor* Werner. Occ. Pap. Mus. Zool. Univ. Mich., No. 592 : 4 pp.

(2) Uzzell, T. M. Teiid lizards related to *Protoporus luctuosus* with the description of a new species from Venezuela. Occ. Pap. Mus. Zool. Univ. Mich., No. 597 : 15 pp. 2 charts.

Uzzell, T. M. & Starrett, P. Snakes from El Salvador. Copeia : 339-342.

Valverde, J. A. Una nueva lagartija del género *Algiroides* Bibron procedente de la Sierra de Cazorla (Sur de España). Arch. Inst. aclim. Almeida **7** : 127-134 3 pls. 2 figs.

(1) Vanzolini, P. E. Sobre *Diploglossus lessonae*, com notas biometricas e sobre a evolucao ontogenetica do padrao de colorido (Sauria, Anguidae). Pap. Dep. Zool. Sec. Agric. S. Paulo **13** (15) : 179-211. [English summary.]

(2) Vanzolini, P. E. Review of:—Bellairs, A. d'A., Reptiles. Copeia : 64.

Varaldi, M. Quelques lézards Marocains. Nature, Paris No. 3284 : 488-490 4 figs.

Vaughn, P. P. The Permian reptile *Araeoscelis* restudied. Bull. Mus. comp. Zool. Harv. **113** 1955 : 305-467 3 pls.

(Vereshchagin, N. K.) [Systematic review of the animals of the Caucasian isthmus.] III. Reptilia. Zhivot. Mir **5** : 261-280 figs. [In Russian.]

Vernon, J. A., see Wever, E. G.

Verriest, G. Etat actuel de la connaissance de la vision colorée dans le regne animal. Biol. Jaarb. 1957 : 234-270. [Not seen.]

(1) Vesey-Fitzgerald, D. F. The snakes of northern Rhodesia and the Tanganyika borderlands. Proc. Rhod. sci. Ass. **46** : 17-102 28 figs.

(2) Vesey-Fitzgerald, D. [F.]. The Water Snakes of Lake Tanganyika. J. Herpet. Ass. Rhodesia, No. 3 : 6-7.

Villiers, A. Tortues et crocodiles de l'Afrique Noire Française. Init. afr. **15** : 1-354 290 figs.

Visser, J. D. Snakes swallowing young. Afr. Wild Life **12** (3) : 253-254.

(Viushkov, B. P.) [Discovery of North American elements in the Upper-Permian vertebrate fauna of the U.S.S.R.] Priroda **11**: 107. [In Russian.]

Vivien, J. H. & Stefan, Y. Féminisation des gonades de jeunes Tortues d'eau, *Emys leprosa*, mâles, par action du diéthyl-stilboestral. C. R. Soc. Biol. Paris **152** : 649-652 1 fig.

Vogel, Z. Surucucu do pantanal. Aquar. Terrar. Z. **11** (6) : 178-181 2 figs.

Vogel, Z., see Bellairs, A. d'A.

Volkova, P. I. The metabolism of labile phosphorus compounds in the brain of turtle in active life and winter sleep. Bull. Acad. Sci. URSS Sér. Biol. **1958** 5 : 544-551 3 figs. [English summary.]

(1) Volsøe, H. Herpetology of Rennell Island. Nat. Hist. Rennell Is. **1** : 121-134 1 fig.

(2) Volsøe, H. Additional specimens of snakes from Rennell Island. Nat. Hist. Rennell Is. **1** : 227-228.

Wager, V. A. The chameleon's breeding habits. Afr. Wild Life **12** (4) : 285-293 5 figs.

Wahlert, G. von. Review of:—Pope, C. H., Reptiles round the World. Copeia : 344.

(1) Walley, H. D. The status of *Takydromus kwangakuensis* Doi. Copeia : 338.

(2) Walley, H. D. A new Lacertid lizard from Korea. [*Takydromus tachydromoides oldi*, subsp. nov.] Herpetologica **14**: 203-205 1 fig.

Walter, H. G. Die Verteilung der Lurche und Kriechtiere auf die Verwaltungsbzirkte des Burgenlandes. Burgenländ. Heimat. Blatt. **20** 1: 48.

W., M. A. Mid-wife to a tortoise (*Chersine angulata*). Afr. wild Life **12** (2) : 141-144.

(1) Warham, J. Herpetology with a camera. Brit. J. Photogr. **105** No. 5095 : 18-22 9 figs.

(2) Warham, J. Australian mountain devil. Fishkpg. Water Life **13** (10) : 491-492.

Waters, J. P. J. Tail vibrations in Malayan snakes. *Malay. Nat. J.* **12** : 115-116.

Webb, R. G. The status of the Mexican lizards of the genus *Mabuya*. *Univ. Kans. sci. Bull.* **38** : 1303-1313 1 fig.

Weber, H. Aus dem Leben der Smaragdeidechse. Kosmos, Stuttgart **54** : 277-282 10 photographs.

Wegner, R. N. Die Nebenhöhlen der Nase bei den Krokodilien. (Studien über Nebenhöhlen des Schädels, 2. Teil.) *Wiss. Z. E. M. Arndt-Univ. Greifswald. Math.-Nat. R.* **7** 1-2 : 1-39 10 pls. 5 figs.

Wegner, W. Frogs in the diet of a hognose snake. *Herpetologica* **13** : 276.

Weichert, C. K. Anatomy of the chordates. New York (McGraw Hill) 2nd Edition pp. vii, 899, text illust.

Wei Ke-chen, see Hu, B. C.

(1) **Wermuth, H.** Taschenbuch der heimischen Amphibien und Reptilien. Urania-Verlag f. popular. Literatur, Leipzig/Jena 1957 : 106 pp. 9 text figs. 32 col. pls.

(2) **Wermuth, H.** Status und Nomenklatur der Maurischen Landschildkröte, *Testudo graeca*, in S.W.-Asien u. N.O.-Afrika. *Senck. biol.* **39** : 149-153 2 pls.

(3) **Wermuth, H.** Reptilia: Helodermatidae. *Tierreich*, Berlin, Lief. 72 : pp. 16 9 figs.

(4) **Wermuth, H.** Die Krokodilschwanz-Höckerechse, *Shinosaurus crocodilurus* Ahl. *Aquar. u. Terr.*, Leipzig **5** (3) : iv, 1 fig.

(5) **Wermuth, H.** Die Perleidechse, *Lacerta lepida* Daudin. *Aquar. u. Terr.* Leipzig **5** (4) : 110.

(6) **Wermuth, H.** Die Grosskopschildkröte, *Platysternon megacephalum* Gray. *Aquar. u. Terr.* Leipzig **5** (6) : 161-165 6 figs.

(7) **Wermuth, H.** Meeresschildkröten. *Aquar. u. Terr.* Leipzig **5** (9) : 260-261 1 fig.

(8) **Wermuth, H.** Geckos. *Aquar. u. Terr.* Leipzig **5** (11) : 314-315.

Wermuth, H., see Gijzen, A.

Wettstein, O. V. *Champse brevirostris* Werner 1933 is a *Crocodylus palustris kimbula* Deraniyagala 1936. *Ann. Zool. Agra* **2** : 241-242.

Wever, E. G. & Vernon, J. A. Auditory responses in the spectacled caiman. *J. cell. comp. Physiol.* **50** 1957 : 333-339 4 figs.

Weyer, D., see Taylor, E. H.

White, F. N. Circulation in the reptilian heart. *Gamma Alpha Rec.* **46** 1956 : 3-8. [Not seen.]

(1) **Wilhoft, D. C.** The effect of temperature on thyroid histology and survival in the lizard, *Sceloporus occidentalis*. *Copeia* : 265-276 8 figs.

(2) **Wilhoft, D. C.** Observations on preferred body temperature and feeding habits of some selected tropical Iguanas. *Herpetologica* **14** : 161-164.

Wilhoft, D., see Lawrence, J.

Williams, E. E. Rediscovery of the Australian chelid genus *Pseudemydura* Siebenrock (Chelidae, Testudines). *Breviora* No. 84 : pp. 8 4 pls.

Williams, K. L. & Chrapliwy, P. S. Selected records of amphibians and reptiles from Arizona. *Trans. Kansas Acad. Sci.* **61** : 299-301.

Williams, K. L. & Smith, H. M. Range and status of a Mexican earless lizard. *Herpetologica* **13** : 265-267 1 fig.

Wilson, V. J. "[*Mehelya* eating *Dispholidus*]." *J. Herpet. Ass. Rhodesia* No. 4 : 7.

Witt, W. L. The smooth Green Snake in the Virginia Blue Ridge Mountains. *Herpetologica* **14** : 140.

Wittman, B., see Gans, C. Of review:—Europas Giftschiangen.

Wood, L. W. An erythristic specimen of northern water snake from Geauga Co., Ohio. *Herpetologica* **14** : 183.

Woods, D. H. Cobra enters hole backwards. *Afr. Wild Life* **12** : 77.

Worrell, E. A new Papuan python. [*Liasis taronga*, sp. nov.] *Proc. R. zool. Soc. N.S.W.* 1956-57 : 26-27 4 figs.

Wright, A. H. & A. A., see Conant, R. (3).

Wurster, D. H., see Miller, M. R.

Zaki, O., see Mohamed, A. H.

Zangerl, R. & Medem, F. A new species of chelid turtle, *Phrynops (Batrachemys) dahli*, from Colombia. Bull. Mus. comp. Zool. Harv. **119**: 373-390 2 pls. figs.

Zillig, L. D. The status of *Haldea* Baird and Girard and *Virginia* Baird and Girard. Copeia: 152.

Zimmer, H. Crücera, del "Kreuzotter" Südamerikas. Umschau **58**: 617-618 2 figs. [Not seen.]

Zimmermann, P. Tréatment of game trophies in the field. J.E. Afr. nat. Hist. Soc. **23** (2): 3-5. See also pp. 14- .

Zug, G. R. & Schwartz, A. Variation in the species of *Cadea* (Amphisbaenidae) and a record of *C. blanoides* from the Isla de Pinos. Herpetologica **14**: 176-179.

(1) **Zweifel, R. G.** Results of the Puritan American Museum of Natural History Expedition to Western Mexico. 2. Notes on reptiles and amphibians from the Pacific coastal islands of Baja California. Amer. Mus. Novit. No. 1895: 1-17 1 fig.

(2) **Zweifel, R. G.** The lizard *Eumeces tetragrammus* in Coahuila, Mexico. Herpetologica **14**: 175.

(3) **Zweifel, R. G.** Erratum: Vol. **14** pt. 3 p. 175 1958: line 6 from bottom was omitted. Insert (*stejnegeri*) *ianus* in the Sierra Mel Carmen; *Drymobius m. margaritiferus*, *Scincella*. Herpetologica **14**: 196.

II.—SUBJECT INDEX

References to the "Titles" is by the name(s) of the author(s) printed in clarendon type.

GENERAL LITERATURE AND HISTORY

Text-books: General Works.—Fossil Amphibians and Reptiles. British Museum handbook. Swinton (1).—Brochure on Archbold Biological Station, Florida, Archbold.—Comparative vertebrate anatomy, Baer.—Field guide to reptiles and amphibians of the U.S.A. and Canada, col., pls., figs., etc., Conant (1).—Anatomy of the chordates, Weichert.—Taschenbuch d. heimischen,

9 text figs., 32 col. pls., (Reptiles & Amphibians), Wermuth (1).—Of crocodiles and chelonians of French N. Africa, Villiers.

History.—Zoological exploration of Dutch New Guinea, Brongersma (6).—Notes on A. E. Brown, Conant (5).—Duméril, A. M.-C., Guibé, (2).—Sema-ceremonies, Sarawak, Harrison.—Historical summary of *Chelonia mydas* in Malaya and Sarawak, Hendrickson.—Historical study of reptiles from Rio Grande do Sul District, Lema (2).—Of Tamaulipas, Mexico, Martin, P. S.—On Hallowell's type specimens from Venezuela in Acad. N. Sci. Philadelphia, Roze (1).—On egg-laying of sea turtles in Tamil Sangam literature, Sanjeeva Raj.

Obituary.—Of K. P. Schmidt, Emerson; E.H.C.; Hellmich (2); (photograph), Mertens, R. (5).

Bibliography.—Reptiles in saltwater areas, Neill (2).—Some references to works on reptiles of Rio Grande do Sul District, Brazil, Lema (2).—Some references on Panama literature, Smith, H. M. & Grant (6).—Some references to works on S. Florida Duellman & Schwartz.—Some literature on Tamaulipas, Mexico, Martin, P. S.—Of Eastern Canada, Bleakney (1).—Some references to works on harpetofauna of the Pacific basin, Brown, W. C.—Of some titles on African snakes, Loveridge.—To some titles of chelonians and crocodiles of French N. Africa, Villiers.—Some references to papers on Madagascar, Guibé (1).

Taxonomy.—Remarks on clinal concept and *Geomyza* of Mexico, Mosiman (3).

Nomenclature.—Generic names of footprints—†*Anchisauripus* Lull and †*Otouphepus* Cushman, Colbert, (3).—Reinstatement of *Rabdion*, Leviton.—Discussion on ordinal name for the turtles, Hunt (2).—Status of *Haldea* and *Virginia*, Zillig.—The proper names of some Cuban snakes; notes on publication dates of Raman de la Sagra's, Hist. Nat. Cuba and Fitzinger's, Syst. Rept., Smith, H. M. & Grant (7).

Museum: Collections.—The nature of the Natural History Museum, Schmidt, K. P. (1).—The role of the Zoological

Curator as a writer, **Bogert** (2).—On A.M.C. Duméril, **Guibé** (2).—Museum National d'Histoire Naturelle, Paris, **Guibé** (2).—Catalogue of type specimens in the Chicago Natural History Museum, **Marx** (1).—List of reptilia in Ohio Wesleyan University Museum, **Adler** (3).—Acad. N. Sci. Philadelphia, notes on Hallowell's Venezuelan types, **Roze** (1).—Of Dundo, Angola, **Machado**.—Serpent acquisitions of I.F.A.N. in 1956, **Condamin**.—Discussion on journey of 1957 on West and Centre Ahl Mascot, N. Somaliland, **Scorteui**.—Treatment of skins in the field, **Zimmermann**.

Zoological Gardens.—Philadelphia Somaliland, **Scortecci**.—Treatment of Zoological Gardens, on stocking up, **Conant** (6).—Kalahari Gemsbok National Park, **Fitzsimons & Brain** (4).—Breeding of giant tortoises in San Diego, **Staedeli**.

Techniques.—Collecting, a field guide of U.S.A. and Canada, **Conant** (1).—A new flexible mould for reptile models, fig., **Fendler**.—Preparation of reptile skulls, figs., **Hubbell**.—Paraffin plastic, **Haug**.—Procaine hydrochloride as killing agent, **Livezey**.—A method of reproducing models from living specimens, **Müller-Gehring**.—On modelling, **Pape**.

Vernacular Names.—German fauna, **Frommhold**.—Of German fauna, **Wermuth** (1).—Of some African snakes, English and native, **Loveridge**.—S. Africa (English and Boer names), **Fitzsimons & Brain** (4).—Snakes of N. Rhodesia, **Vesey-Fitzgerald** (1).—English and native names of crocodiles and chelonians of French N. Africa, **Villiers**.—Of E. Canada, **Bleakney** (1).—Of Glen Canyon, Utah, **Tanner** (4).—Of some chelonians of Bihar, **Acharji**.—Crocodiles of Colombia, native names, **Medem** (3).—Some Australian geckoes, **Cogger**.—Of some Dutch New Guinea reptiles, **Brongersma** (6).

Folklore; Beliefs.—Swallowing of young snakes by mother puff adders, **Campbell**.—On snakes swallowing young, **Visser**.—On tortoises, **Stephen-Hassard**.—Archaeological sites in Canada and turtle bones, **Bleakney** (2).—Of crocodiles and chelonians of French N. Africa, photographs, **Villiers**.

—Notes in Liberia, **Taylor & Weyer**.—Of some Dutch New Guinea forms, **Brongersma** (6).

Reviews.—Of Darlington, P. J., Zoogeography, **Savage** (2).—Of Bellairs, A. d'A., Reptiles, 1957, **Vanzolini** (2).—Of Potous, P. L., No tears for the crocodile, [Reuben].—Of L. M. Klaubers' Rattlesnakes, **Ahrenfeldt**.—Of Schmidt and Inger, Living Reptiles of the World, **Anon.** (3).—Of C. H. Pope, Reptiles round the World, **Wahlert**.—Of Vogel, Z., Reptile Life, **Bellairs**.—Of Wittmann, B., Europas Giftschlangen, 1954, **Gans**.—Of Christensen, P. A., South African snake venoms and anti-venoms, **G.B.T.**.—Of Barash, A., Reptiles of Israel, **Hecht** (2).—Of Freiberg, M. A., Vida de Batracios y Reptiles Sudamericanos, **Oliver** (3).—Of Wright & Wright, Handbook of Snakes of the United States and Canada, **Conant** (3).—Of Blair, W. F. et al., Vertebrates of the United States, **Hecht**, (1).

Food for Man.—Chelonians and crocodiles of French N. Africa, **Villiers**.—Marine turtles of the French Antilles, **Morice**.—Animal remains in Florida, **Neill, Gut & Brodkorb**.

STRUCTURE

INCLUDING HISTOLOGY

Text-Books: General Works.—Anatomy of the Chordates, **Weichert**.—Comparative functional-anatomical study of heads of some Viperidae, **Dullemeijer**.—On the anatomy of *Natrix piscator*, **Bergman** (1).

Integument: Skin.—Classification of vertebrates, comparative anatomy, **Baer**.—Nuchal venom glands in *N. tigrina*, figs., **Fukada** (1).—Tumours in *L. viridis*, **Stolk** (5).

Coloration.—**Kuntz**.—**Skoknic**.

Osteology.—Cranial morphology of an †Ictidosaurian, **Crompton**.—Comparative histological study of fossil and recent bone tissue, **Enlow & Brown**.—Classification of vertebrates, comparative anatomy, **Baer**.—*Barkudia insularis*, figs., **Ganapati & Rajyalakshmi**.—Vertebral column in *Hemidactylus flaviviridis*, figs., **Ganguly & Mitra**.—Skeleton of *T. braminus*, fig., **List**.—Drought recorded in growth zones in *Pituophis c. sayi*, **Peabody**.—

Comparison of Viperidae, skulls, **Dullemeijer**.—Of the crocodilian skull, figs., **Wegner, R. N.**—Of crocodiles and chelonians of French N. Africa, figs., **Villiers**.—Of *Crocodylus intermedius*, figs., **Medem (2)**.

Dentition.—Classification of vertebrates, comparative anatomy, **Baer**.—Tooth succession in *Alligator mississippiensis*, plates, **Kvam**.

Muscles: Myology.—Of the hyoid in some Indian reptiles, **Sondhi**.—The hind limb musculature of *Lissemys punctata*, figs., **George & Shah**.—Trunk musculature of *Sanzina* and its bearing on myological evolution, **Auffenberg**.—Comparison in skulls of vipers, **Dullemeijer**.—Head muscles of *V. palaestinae* and relation to venom gland, figs., **Kochva**.

Circulatory System.—Correlation of electrophoretic properties of hemoglobins as indicators of phylogenetic relationships, **Dessauer, Fox & Ramirez**.—Of reptiles, comparative anatomy, **Baer**.—On plasma proteins, **Nair**.—Pineal circulation in some lizards, fig., **Steyn (2)**.—*Barkudia insularis*, **Ganapati & Rajyalakshmi**.—Ultramicroscopic structure of renal glomerulus of *Phrynosoma cornutum*, **Anderson & Beams**.—Blood glucose and pancreatic islets of *Eumeces obsoletus*, figs., **Miller & Wurster**.—On impulse conducting tissue of the heart, **Prakash**.—Of crocodiles and chelonians of French N. Africa, figs., **Villiers**.—Paper electrophoresis differences between *Chrysemis* and human sperm, **Tondo**.—On the blood of *T. ibera*, **Girod & Lefranc**.

Alimentary System.—Classification of vertebrates, comparative anatomy, **Baer**.—Liver and bile system of *Amphisbaena darwini*, figs., **Carlo**.—Pancreatic islets of *Eumeces obsoletus*, **Miller & Wurster**.—Of crocodiles and chelonians of French N. Africa, figs., **Villiers**.

Respiratory System.—Classification of vertebrates, comparative anatomy, **Baer**.—*Barkudia insularis*, **Ganapati & Rajyalakshmi**.—Lungs of *Lacerta vivipara* and *viridis*, **Dokov (1)–(3)**.—Morphology of lungs of *V. ammodytes*, **Dokov (2)**.—Cloacal bursae in chelonians, **Smith, H. M. & James (8)**.—Of crocodiles and chelonians of French N. Africa, figs., **Villiers**.

Nervous System.—Classifications of vertebrates, comparative anatomy, **Baer**.—Electromicroscopic study of *N. natrix*, **Bargmann, Knoop & Thiel**.—Spinal column, **Pannese**.—In connection with the tongue and hyoid in some Indian reptiles, **Sondhi**.—The subcommissural organ in *Calotes versicolor*, fig., **Pandalai**.—Anterior pituitary development in *L. muralis* and *viridis*, figs., **Szentagothal & Szekely**.—*T. graeca* intestine, **Pera**.—Facial and auditory nerves, superior olive present, in *Alligator*, **Gillaspay**.

Excretory System.—Cloacal bursae in chelonians, **Smith, H. M. & James (8)**.—Microscope examination of kidney in *V. griseus*, **Ábrahám**.—Ultramicroscopic structure of renal glomerulus of *Phrynosoma cornutum*, **Anderson & Beams**.—Histochemical study of pigment in epithelium of kidney of *Philodryas schottii*, **Sasso, Castro, Pacheco**.—Kidney of *T. graeca*, **Thiel**.—Histochemistry of *Crocodylus niloticus*, **Arvy & Bonichon (1)**.

Reproductive System.—Classification of vertebrates, comparative anatomy, **Baer**.—Sexual cycle of male *Anolis carolinensis*, **Fox, (1)**.—Seasonal variation in males of *Scincus scincus* and *Chalcides ocellatus*, figs., **Badir**.

Glands.—Classification of vertebrates, comparative anatomy, **Baer**.—Salt glands in marine reptiles, **Schmidt-Nielsen & Fange**.—Taxonomy of salivary glands, **Tucker**.—Tumours of heart in *Lacerta agilis*, figs., **Stolk (2)**.—Tumours in *Lacerta viridis*, figs., **Stolk (3)**.

Endocrine Glands.—The subcommissural organ in *Calotes versicolor*, fig., **Pandalai**.—Development on anterior pituitary in *L. muralis* and *viridis*, figs., **Szentagothal & Szekely**.—Histophysical observations on pancreas of *T. graeca*, figs., **Saviano & Girolamo**.

Sense Organs.—Stapes in Dinosaurs. **Colbert & Ostrom**.—Classification of vertebrates, comparative anatomy, **Baer**.—Visual pigments of vertebrate retina, **Crescitelli (2)**.—Pineal circulation in some lizards, figs., **Steyn (2)**.—Evidence of blue-sensitive component in retina of *Oedura monilis*, **Crescitelli (1)**.—Parietal eye in lizards, *Sceloporus*,

Uta and *Uma*, figs., **Stebbins & Eakin**.—Comparison in skulls of vipers, **Dullemeijer**.

Special Structures.—The hyoid in some Indian reptiles, **Sondhi**.—Choanal papillae of the Cheloniidae, **Parsons**.

Teratology.—On fork-tailed *Hemidactylus brooki*, figs., **Krishna Pillai**.—Bicephalic *Helicops carinicauda infrataeniata*, plates, **Lema** (2).—Bicephalic *Liophis m. semiaureus*, figs., **Lema** (1).—Double-headed *V. russelli* of Ceylon, fig., **Deraniyagala**, (3).—Abnormal carapace in *Chrysemys picta*, fig., **Sturn & Brattstrom**.—Aberrant carapace of *Pseudemys dorbigni*, fig., **Adler** (4).—*Graptemys pseudogeographica ouachitensis* with distorted shell, fig., **Carpenter** (2).

Bio-chemistry.—Identity of pterins in snake skins, **Blair & Graham**.—Amino acids in blood proteins of turtles, **Gasdorf & Goodnight**.—On plasma proteins, **Nair**.—X-ray diffraction of reptile egg shells, **Foulkes & Schuknecht**.—Lipids in the oogenesis of *Hemidactylus flaviviridis*, figs., **Guraya**.—Blood chemistry of snakes, **Hutton**.—Study of pigment in the epithelium of kidney of *Philodryas schottii*, **Sasso, Castro & Pacheco**.

Cytology.—Special condition of the interphase nucleus in normal and tumorous cells, **Stolk** (4).—Structure of renal glomerulus of *Phrynosoma cornutum*, **Anderson & Beams**.

Laboratory Techniques.—Skull preparation, figs., **Hubbell**.—Sectioning refractory animal tissues, **Griffiths & Carter**.—Colouration of spermatozooids of snakes, **Belbèze**.—Peroxidase reaction to tissue staining, **Kawasaki**.—Permeability of lacertilian epiphysis to vital dyes, **Steyn** (1).

PHYSIOLOGY

Nutrition and Digestion.—Of chelonians and crocodiles of French N. Africa, **Villiers**.

Circulation.—Effects of activity on turtles, **Gaumer & Goodnight**.—On the heart, thermal variations, **Kruta**.—In reptile heart, **White**.—Pineal circulation in some lizards, figs., **Steyn** (2).—On catalasic activity of *L. viridis* blood, **Liotti**.—Blood glucose and pancreatic islets of *Eumeces obsoletus*, figs., **Miller**

& **Wurster**.—Experiment on heart sensibility of tortoise, **Baumann**.—Factors affecting blood formation in turtles, **Altland & Thompson**.

Osmotic Relations.—Salt glands in marine reptiles, **Schmidt-Nielsen & Fange**.—In *Natrix sipedon*, **Pettus**.

Respiration.—**Baudrimont**.—Some aspects of hematology of turtles related to activity, **Gaumer & Goodnight**.—Of labile phosphorus components in brain of turtle, **Volkova**.—Cloacal bursae in turtles, **Smith, H. M. & James** (8).

Nervous System.—On its role in regeneration of tail in lizards, fig., **Nikitenko** (2).—The subcommisural organ in *Calotes versicolor*, figs., **Pandalai**.—Of *T. graeca* intestine, **Pera**.

Senses.—Brain and sense organs, **Swinton**, (2).—The tongues of reptiles, **Freytag**.—Effect of light on retina, **Pezard** (2).—Pineal circulation in some lizards, figs., **Steyn** (2).—Evidence of blue-sensitive component in retina of *Oedura monilis*, **Crescitelli** (1).—Function of parietal organ in *A. fragilis*, **Roth & Braun**.—Increased activity following parietal shielding in *Xantusia*, **Glaser**.—Parietal eye in lizards, *Sceloporus*, *Uta* and *Uma*, figs., **Stebbins & Eakin**.—Olfaction in Rattlesnakes, **Cowles & Phelan**.—Experimental study on 'third eye', of *Sphenodon*, **Stebbins** (2).—Prehensibility of tails in Chelydridae, **Brode**.—Auditory responses in *Caiman sclerops*, figs., **Wever & Vernon**.—On colour vision, **Verriest**.

Secretions.—The subcommisural organ in *Calotes versicolor*, figs., **Pandalai**.—Effect of nuchal gland substance of *N. tigrina* on mammal and toad blood, **Kitazume**.

Glands.—On the suprarenal gland in *C. niloticus*, **Arvy & Bonichon** (2).—On pancreas, histophysical, of *T. graeca*, figs., **Saviano & Girolamo**.—The subcommisural organ in *Calotes versicolor*, figs., **Pandalai**.—Effect of nuchal gland substance of *N. tigrina* on blood of mammals and 'toads', **Kitazume**.

Growth.—On tooth succession in *A. mississippiensis*, **Kvam**.

Regeneration.—**Preda & Persecă**.—Central nervous system role after autotomy, **Nikitenko** (1).—Total regeneration of carapace in *Terrapene*

carolina, Smith, H. M. (3).—Epimorphic regeneration in *T. graeca* during hibernation, Hunt, T. J. (4).

General Metabolism.—Responses to temperature in *Dipsosaurus dorsalis*, Dawson & Bartholomew.—Of labile phosphorus compounds in brain of turtle, Volkova.—Cloacal bursae in chelonians, Smith, H. M. & James (8).—Effects of hormones in the alligator, Stevenson, Coulson & Hernandez.—Epimorphic regeneration in *T. graeca* during hibernation, Hunt, T. J. (4).

Bio-chemistry.—Salt glands in marine reptiles, Schmidt-Nielsen & Fange.—Nuchal gland substance of *N. tigrina*, Kitazume.—Histochemistry of *Crocodylus niloticus*, Arvy & Bonichon (1).—Excretion of nitrogen by alligator embryo, Clark, Siskin & Shannon.—Nitrogenous excretion in crocodiles, Khalil & Haggag.

Coloration.—Energy requirements of melanin granule aggregation and dispersion in the melanophores of *Anolis carolinensis*, figs., Horowitz.—Colour changing in *Anolis roquet*, May & Thillard.

Muscular Activity.—Of chelonians, Reichel & Bleichert.—Head muscles of *V. palaestinae*, and their relation to venom gland, figs., Kochva.—Iodide contracture in potassium treated retractor muscle of *Ch. picta*, Curtis & Csapo.—Retractor penis muscle of *Ch. picta* reaction in a number of conditions to potassium, Conway & Csapo.

Body Temperature.—Analyses of radiation, lizards, Cherchi (7).—Dermal temperature regulation, Cowles.—Microvariation in temperature, Cherchi, Holzer, Scortecci & Serrato.—Effect on thyroid histology and survival in *Sceloporus occidentalis*, Wilhoft (1).—Thermoregulation in *Emys orbicularis*, Cherchi (6).

Effects of Environment.—Metabolic and cardiac responses in *Dipsosaurus dorsalis*, Dawson & Bartholomew.—*L. vivipara*, weather effects, Knötig.—Coloration of teeth in snakes through iron oxide, Schmidt, W. J.—Drought recorded in growth zones of *Pituophis c. sayi*, Peabody.

Experimental Studies.—Effect of cold on renal tubular function, Hernandez & Coulson.—On liver of tortoise, Schilling.

—Response of male reproductive system in *A. carolinensis* to unnatural day-lengths, Fox & Dessauer (3).—Fluorescent mast-cell reaction in precancerous skin of *L. agilis*, Stolk (1).—Effect of electrical stimulus on *L. agilis*, Crepax & Parmeggiani (1).—Electrical stimulus response in *L. viridis*, Crepax & Parmeggiani (2).—Of electric impulses on *Lacerta viridis*, Parmeggiani.—On 'third eye' of *Sphenodon*, Stebbins (2).—Anaesthetics on crocodiles, Ferreira & Leão.—Effect of chemicals on oviduct in *Chrysemys d'orbigny*, Marques.—Action of gonadotrophine chorionique on *E. leprosa*, Combescot.—Sex reversal action on male *E. leprosa*, Vivien & Stefan.—Action of electrical current on the eye of *T. graeca*, Gonella & Cornu.—On the heart of *T. graeca*, Rybak.—Effect of X-ray on *T. graeca*, *E. orbicularis*, Pézard.

Behaviour.—Photic responses and water-approach behaviour of young turtles, Anderson.

Laboratory Technique.—Method of obtaining blood from anesthetized tortoises, Gandal.

Diseases.—Tumours in *Lacerta viridis*, Stolk (5).—Susceptibility of *Thamnophis* to Western Equine encephalomyelitis virus, Thomas, Eklund & Rush.

REPRODUCTION AND SEX

Reproduction.—Classification of vertebrates, comparative anatomy, Baer.—Reproduction, young, eggs and food of Oklahoma snakes, Carpenter (1).—Photographs of *Coronella austriaca* birth, Oomen.—Of chelonians and crocodiles of French N. Africa, figs., Villiers.—Coital movement in pairing *Terrapene c. bauri* and *c. triunguis*, Lin.—*Chelonia mydas*, figs., Hendrickson.

Reproductive Cycle.—Of male *Anolis carolinensis*, Fox (1).

Fertility.—Of *Vipera aspis*, Saint Girons.

Parthenogenesis.—In subspecies of *Lacerta saxicola*, Darevskii.

Hermaphroditism.—In *Bothrops insularis*, Schreiber, Hoge, Belluomini & Penha.

DEVELOPMENT

Egg: Oogenesis.—Lipids of *Hemidactylus flaviviridis*, **Guraya**.—*L. muralis*, in captivity, **Cooper, J. S.**—Eggs and young of *Gopherus polyphemus*, figs., **Arata**.—Eggs and young of *Gopherus agassizi*, **Booth**.—Extra-uterine migration of ova in *Terrapene*, **Legler**.

Sperm: Spermatogenesis.—Of *Brookesia* sp., **Tuzet & Manier**.

Embryology.—Classification of vertebrates, comparative anatomy, **Baer**.—Study of nuchal venom glands of *N. t. tigrina*, figs., **Fukada**, (1).

Ontogeny.—Ontogenetic evolution of colour pattern, body proportions and variability of scutellation in *Diploglossus lessonae*, **Vanzolini** (1).

Growth.—Vertebral column in *H. flaviviridis*, figs., **Ganguly & Mitra**.—Growth rates in captive *Anolis carolinensis*, **Fox & Dessauer** (2).—Tooth succession in *Alligator mississippiensis*, **Kvan**.—An analysis of allometry in chelonian shell, **Mosimann** (1).

Teratology.—Twinning of *Terrapene c. triunguis*, photo., **Crooks & Smith**.—Dichocephaly and polyembryony in *H. p. platyrhinos*, **Meyer**.

EVOLUTION AND GENETICS

General Works.—Gilbert, (1).—Extinction of Dinosaurs, **Cowles**, (2).—Extinction of Dinosaurs, **Schatz** (1).—Extinction of Dinosaurs, reply to Cowles comment on theory, **Schatz** (2).—Diagram of changes, **Eaton**.—The significance of rare matings, **Mosiman** (2).—In nature, **Hoesch**.—In Florida, **Goin**.—Of the genus *Uma*, **Norris**.—Of Reptiles, **Tatarinov**.—Classification and evolution of the Chordates, **Weichert**.—Evolution of a coast range in California, **Peabody & Savage**.

Phylogeny.—Trunk musculature and its bearing on myological evolution, **Auffenberg**.—Taxonomy of salivary glands, **Tucker**.—Electrophoretic properties of hemoglobins as indicators of phylogenetic relationships, **Dessauer, Fox & Ramirez**.

Evolution of Organs.—Evolutionary lines in tooth attachment and replacement, figs., **Smith, H. M.** (1).—Sound transmitting organs, **Tatarinov**.—Of striated muscle tissue, **Koloss**.

Variation.—Colour pattern, body proportions and scutellation in *Diploglossus lessonae*, **Vanzolini** (1).—Colour variation in *Phrynosoma modestum*, figs., **Bundy & Neess**.—Geographic variation in plasma patterns of snakes, **Dessauer & Fox**.—Colour variation, *N. sipedon*, in Lake Erie, **Camin & Ehrlich**.—In a litter of *N. s. sipedon* from Ontario, **Bleakney** (3).—Erythism in *N. s. sipedon*, **Wood**.—Longitudinal striping as a pattern modification in *Pituophis melanoleucus*, figs., **Riemer**.—Aberrations in colour patterns among crotalids, **Gloyd**.

Dimorphism.—Umbilical scar position and sexual dimorphism in *Heterodon*, **Edgren**.—Sex dimorphism in *Lepodeira*, **Duellman** (1).—Sexual dimorphism in coloration in *Cerastes vipera*, **Marx** (3).—Sexual dimorphism in *Chelydra serpentina*, **Mosiman** (3).

Adaptations.—Adaptive convergence in Australian lizards, figs., **Mitchell**.—Of Chelonians, **Villiers**.

Protective Coloration and Structures.—Cryptic coloration in lava-dwelling *Phrynosoma*, **Lawrence & Wilhoft**.

Albinism and Melanism.—Albinism in some reptiles, **Cooper** (2).—Albinism in *Diadophis punctatus arnyi*, **Earle**.—Second instance of albinism in *Pituophis c. catenifer*, photo., **Leviton & Kessel**.—Partial albinism in *Naja naja*, **Romer, J. D.** (1).—A black *V. b. berus*, **Krüger**.

Dichromatism.—In *Sphaerodactylus notatus*, **Grant** (1).

General Genetics.—Natural selection in *N. sipedon* on Lake Erie Ids., **Camin & Ehrlich**.—Twinning of *Terrapene c. triunguis*, photograph, **Crooks & Smith**.

Chromosome Problems.—Of *Hemidactylus brooki* and *V. monitor*, figs., **Bhatanagar**.—The metaphase chromosomes of *Crocodylus niloticus*, **Hollingsworth**.

ECOLOGY AND HABITS

General Works.—Of Mesozoic tetrapods, **Colbert**.—The concept of ecologic niche, with reference to the theory of natural coexistence, **Savage** (3).—On fauna of Germany, vernacular names, general characters, habitats, photographs, **Frommhold**.—Of German

fauna, 9 text figs., 32 col. pls., **Wermuth (1)**.—Some of the reptiles of Ifranc region, Morocco, **Bons**.—Ecological study of Savannah River project area, **Freeman**.—Of *Parque Nacional do Itatiaia*, Brazil, **Barth**.—Reptiles of Coquimbo, Chile, **Donoso (3)**.

Chelonians.—General and comprehensive work on treatment in captivity, chart, plates, etc., **Gijzen & Wermuth**.—On orientation, **Mertens (7)**.—Natural history and general observations, photographs, of N. Africa, **Villiers**.—On overwintering of *T. hermanni*, photographs, **Hediger**.—Breeding and general notes on the Desert tortoise, **Stephen-Hassard**.—*Platysternon megacephalum*, in captivity, figs., **Wermuth**.—General notes on marine turtles, **Wermuth (7)**.—Observations on *Chelonia mydas* and *Eretmochelys imbricata*, of Thailand, **Penyapol (2)**.

Crocodiles.—Natural history and general observations, photographs of French N. Africa, **Villiers**.—Of Colombia, food, parasites, reproduction, conservation, **Medem (3)**.—On *Paleosuchus*, **Medem (1)**.—Ecology of *C. intermedius*, **Medem (2)**.

Lizards.—*L. muralis* in Holland, **Bree**.—*Lacerta lepida*, general notes, **Wermuth (5)**.—*Shinosaurus crocodilurus*, general note, fig., **Wermuth (4)**.—General observations on *Palmatogeocho rangei*, **Brain**.—Habitats of some lizards in Cuba, **Cooper (1)**.—Habitat notes on *Ophisaurus buttkoferi*, **Inger (2)**.—Study of *Eumeces skiltonianus*, **Tanner (1)**.—Life history of *Eumeces egregius*, **Hamilton & Pollack**.—Ecological observations on Gerrhonotine lizards, **Stebbins (1)**.—Of the genus *Uma*, **Norris**.—Natural history of four species of *Cnemidophorus* in Texas, **Milstead**.—On the natural history of *Cnemidophorus sexlineatus*, **Fitch (1)**.—*Barkudia insularis*, fig., **Ganapati & Rajyalakshmi**.—Australian geckoes, figs., **Cogger**.—Observations on *Moloch horridus*, **Sporn; & Warham (2)**.

Snakes.—Aquatic reptiles dangerous to man, **Albahany & Budker**.—Of *Natrix* in Roumania, **Klemm, W.**—Notes on *Elaphe longissima*, *Coluber viridiflavus*, **Keller**.—Habitat of *Abaster erythrogrammus*, **Gordon**.—Life history of *Leptodeira*, **Duellman (1)**.—A general popular article on cobras, photographs,

Shaw (2).—General notes, and on captive, *Oxyuranus scutellatus*, **Oliver (1)**.—General information on *Ancistrodon contortrix* subsp., photographs, **Oliver (2)**.—Some notes on snakes of Asahan, Malacca, **Batchelor**.

Ecological Associations.—Tamaulipas, **Martin, P. S.**—Saltwater areas, **Neill (2)**.

Effects of Environment.—Drought on populations, **Blair, W. F. (2)**.

Distribution.—Distributional pattern in the southern U.S., **Blair**.—Of terrestrial reptiles in the Pacific basin islands, **Brown, W. C.**

Territory.—Home ranges, **Fitch (2)**.

Population Studies.—Colour variation in *Phrynosoma modestum*, figs., **Bundy & Neess**.—Natural selection in *N. sipedon* on Lake Erie Ids., **Camin & Ehrlich**.—Seasonal prevalence in the fields, Japan, **Fukada (2)**.—Population density of river turtles in Alabama, **Tinkle (2)**.—Nesting populations of marine turtles on E. coast of Malaya, **Hendrickson & Alfred**.

Enemies and Defence.—*Chlamydosaurus*, photographs, **Bogert (1)**.—of *C. sexlineatus*, **Fitch (1)**.—Predators on *Chelonia mydas*, **Hendrickson**.—Of chelonians and crocodiles of French N. Africa, **Villiers**.

Conservation.—Crocodiles of Colombia, **Medem (3)**.—Crocodiles place in nature, Africa, **King**.—On *Chelonia mydas*, **Hendrickson**.

Extermination.—Effect of myxomatosis on reptile life in the Rhone delta, **Menne**.

Parasitism.—Sarcophagid fly larva in *Anolis carolinensis*, **Gunter**.—*Salmonella* in *Leiopeltis* of Viet-nam, **Mille, Le Minor & Capponi**.—Of *C. sexlineatus*, **Fitch (1)**.—Treatment of water tortoises, **Rotermundt (1)**.—Algal growth on *Emys orbicularis* and resultant necrosis, **Hunt (1)**.—On shell algal growth on turtles, **Proctor**.—Of *Chelonia mydas*, **Hendrickson**.—Of Crocodiles of Colombia, **Medem (3)**.

Diseases.—Cause of death in chameleons, **Benzien (2)**.—Detection and cures, **Foor**.—Treatment of respiratory ailment, **Metzger**.—Treatment of water tortoises, **Rotermundt (1)**.

Technique.—Herpetological photography, **Warham (1).**—Collecting living specimens, **Conant (1).**—On capturing *Varanus*, **Fleay.**—Treatment of respiratory ailment in *Testudo horsfieldi*, **Metzger.**—Marking and banding turtles, **Kaplan.**—Preserving tracks, **Murie.**

Aquaria, Terraria, etc.—Notes, **Aleven.**—Technique, **Sachs (1).**—Notes on glass-trays, **Rotermundt (2).**—A substitute food for captive reptiles, **Rotter (2).**—On breeding, **Kattouw.**—Care in captivity, figs., **Conant (1).**—On British reptiles, mainly feeding, **Broadley (5).**—Lizards, **Brehm.**—Landwehr.—C. Asian lizards, **Obst.**—*Tarentola mauritanica*, **Klynstra, M. J.**—**Lehmann (2).**—*Agama stellio*, **Lehmann (1).**—On *Anolis*, **Rekum (1).**—*I. i. iguana*, **Sachs (2).**—On *Crotaphytus* and *Phrynosoma*, **Letitre.**—*Uranoscodon superciliosum*, **Grijs.**—**Rekum (2).**—For *Lacerta*, **Holsheimer.**—On *L. muralis*, eggs and young, **Cooper, J. S.**—*Lacerta taurica*, **Houba (1).**—Observations on *Egernia* and *Tiliqua*, **Adler (3).**—On *Chamaeleo chamaeleon*, photograph, **Klemmer.**—**Klynstra, F. B.**—*Sphenodon punctatus*, **Stemmler-Morath.**—On snake keeping, **Roberts.**—On snakes in N.H. mus. Enschede, **Roding (1).**—Notes on snakes from Libya, **Kramer & Schnurrenberger.**—*Boa constrictor*, **Rust.**—On *N. tessellata*, **Steward.**—*Cyclagras gigas*, notes on egg-laying, photographs, **Vogel.**—*Coluber jugularis caspius*, **Houba (2).**—Reproduction in *Elaphe g. guttata*, **Bechtel.**—*Elaphe o. obsoleta*, food, **Bell.**—*Neopareas bicolor*, **Sievers.**—On *N. n. naja*, **Hoevers.**—*Agkistrodon halys*, **Rotter (3).**—General work on chelonians, food, treatment in captivity, pls., chart, **Gijzen & Wermuth.**—On captive *Clemmys insculpta*, **Clement.**—*Malayemys subtrijuga*, in captivity, **Anon. (2).**

General Habits.—Daily activity of some Oklahoma lizards, **McCoy.**—Nocturnal tendency in *Phrynosoma platyrhinos*, **Harris.**—*L. viridis*, **Weber.**—*Sphenodon*, **Nielsen.**

Feeding Habits.—On British reptiles, **Broadley (5).**—Pests and feeding, **Klemm, M.**—A substitute food for captive reptiles, **Rotter (2).**—In relation to artificial control, **Sweetman.**—Snake and lizard predators of birds, **Pitman.**—

Preferred body temperatures and feeding habits of some tropical iguanas, **Wilhoft (2).**—Of *C. sexlineatus*, **Fitch (1).**—Photographs of *V. komodoensis*, **Hoogerwerf.**—Drinking of *Trachysaurus rugosus*, **Sadleir.**—Tecnophagy (own egg-eating), of *Eumeces*, **Hamilton.**—Habits of *Dasia s. philippinica*, **Alcala.**—Chameleons, photographs, **Cock.**—Of British snakes, **Appleby (1).**—Of some Oklahoma snakes, **Carpenter (1).**—*Liasis taronga* said to feed on water-birds, eggs and paw-paw; fed on rats in captivity, **Worrell.**—*Heterodon*, eating frogs, **Wegner, W.**—Of *Heterodon p. platyrhinos*, and resistance to toad poison, **Huheey.**—*N. sipedon sipedon*, **Brown, E. E.**—*Thamnophis butleri* eating *Hyla*, **Test.**—Garter snakes, eating minnows, **Mckay & Dew.**—*Pituophis sayi* feeding on woodpecker, photograph, **Olsen, O. W.**—*Elaphe o. obsoleta*, **Bell.**—Egg-eating observed in *Cemophora coccinea*, **Minton & Bechtel.**—Amphibian food of *Leptodeira a. cussiliris*, **Turner.**—On material ingested by *Agkistrodon piscivorus*, **Goodman.**—Feeding habits of some captive tortoises, **Beltz.**

Breeding and Parental Habits.—Of *C. sexlineatus*, **Fitch (1).**—Behaviour of *Chamaeleo gracilis*, captive and wild, **Menzies.**—Of *Chamaeleon dilepis*, figs., **Microsaura pumilis, melanocephala**, figs., **Wager.**—Mating of *P. mucosus*, **Morris.**—Of Giant tortoises in captivity, **Staedeli.**

Courtship.—Of Rat snakes, **Sethna.**

Sex Relations.—Of *V. bengalensis*, fig., **Deraniyagala (2).**—Of some Oklahoma snakes, **Carpenter (1).**—In *Elaphe g. guttata*, and notes on eggs, **Bechtel.**—Coital movement in pairing *Terrapene c. bauri* and *c. triunguis*, **Lin.**—*Chelonia mydas*, figs., **Hendrickson.**

Egg Laying.—Egg numbers in *Elgaria* sp., **Cunningham.**—Birth of *B. arietans*, **Keyter.**—Egg and young of *Gopherus polyphemus*, figs., **Arata.**—Of *Chersine angulata*, photograph, **W. M. A.**—Of *Crocodylus intermedius*, **Medem (2).**

Nesting Habits.—On *Dermochelys c. coriacea*, as a visitor and nesting on Florida beaches, figs., **Caldwell.**—Populations of turtles on east coast of Malaya, **Hendrickson & Alfred.**

Hibernation.—Snakes, Sles.—On [*Tham. sirtalis*], Nero (1).

Burrowing Habits, etc.—Caves in Florida, Holman.—*Psammophis schokari*, water habitat fondness, Schnurrenberger (2).

Habitat.—Relationship between habitat preferences of hatchling *Chelydra serpentina* and physical structure of vegetation, Sexton.

Moult: Ecdysis.—Shedding of skin by snakes, Goslar.

Locomotion.—Tracks, figs., Murie.—Gliding of *Draco*, Herre.—Gliding of *Calotes*, Reid.—Tail prehension in *Anolis mestrei ahli*, figs., Hardy (3).—Climbing abilities of *Philothamnus semivariegatus*, Ionides.—On flight of *Chrysopelea ornata*, Pagden.—On 'jumping', *V. russelli*, Butler.—Adaptations of chelonians and crocodiles of French N. Africa, Villiers.

Behaviour.—Behaviour and speculation, Hinde.—Influence of light and soil, Hunt (3).—Tail prehension in *Anolis mestrei ahli*, figs., Hardy (3).—Tail vibration in some Malayan snakes, Waters.—Night movement of desert snakes, general account, figs., Shaw (3).—On Asiatic cobras, Ruiter, (1).—*Abastor erythrogrammus*, Gordon.—Combat or courtship 'fighting' of *Dendroaspis*, Curry-Lindahl (2).—Of *Vipera aspis* of Nantes in the spring, Duguy.—*Aspis cerastes*, Schnurrenberger (1).—'Combat Dance' of *C. h. horridus*, Sutherland.—Water approach behaviour of young turtles, Anderson.—Observations on captive marine turtles, Parrish, F. K.—Intelligence of crocodiles and chelonians of French N. Africa, Villiers.

Fighting.—On pseudo-combat of *V. bengalensis*, figs., Deraniyagala, R. Y.—Use of horns by *Chamaelo jacksoni*, Bustard.—'Combat Dance' of *C. h. horridus*, Sutherland.

Longevity.—33 years of *Anguis fragilis*, Frommhold.—Snakes in captivity in U.S.A., Shaw (1).—*Lampropeltis d. amaura* in captivity, 20 years, 7 months, probably over 21 years old, Meade.

Size & Growth.—Of British snakes, Appleby (2).

Economics.—The principles of biological control, Sweetman.—Of chelonians and crocodiles of French N. Africa, Villiers.

VENOMS

LIZARDS

Observations.—Biochemistry of venom, *Heloderma*, *Lanthanotus*, *Phyllodactylus gerrhopygus*, Kaiser & Michl.

SNAKES

Observations.—Cholinesterase and anticholinesterase in venom, Chang & Lee.—Biochemistry, Kaiser & Michl.—Notes on the snake bite problem, Conant (1).—Venomous snakes of Somaliland, Cherchi (5).—South Africa venoms, Christensen.—Problem in Florida, Parrish, H. M.—Embryological study on nuchal glands in *N. t. tigrina*, figs., Fukada (1).—Fatal and serious bites by *Thelotornis k. capensis*, effect of *Macrellops microlepidotus*, FitzSimmons, D. C. & Smith.—Fatal bite by *Dispholidus typus*, (K. P. Schmidt), report, Pope.—On some Hydrophidae of Viet-Nam, Barme.—Note on Sea-snakes, Albahary & Budker.—General article on Sea-snakes, Smith, J. L. B.—On Hydrophidae of New Caledonia, Gail & Rageau.—Separation and properties of the neurotoxins of *N. s. scutatus* venom, Doery.—On protective action of *Notechis s. scutatus* venom against Staphylococcal toxin, North & Doery.—On relationship of certain enzymes in venom of *Naja*, *Crotalus*, and action mechanism, Radomski & Deichmann.—On bite of *Atractaspis*, Ionides.—Case history of *Atractaspis bibronii* bite, Siemens.—On *V. berus berus*, *aspis aspis*, Frommhold.—Synergistic action of *V. russelli* venom on tissue extracts, Georgatsos, Hussey & Quick.—On *V. xanthina palestinae*, *lebetina*, *Echis carinata*, Izard & Boquet.—Properties of *V. ammodytes* venom, Muic & Piantanida.—Effects of *Walterinnesia aegyptia* venom, Mohamed & Zaki.—[*Crotalus*], of Brazil, Habermann.—From bites of recently milked *Crotalus*, Parrish & Thompson.—Toxicity of *C. adamanteus* venom and antidotal effects of hydrocortisone, Deichmann et al.—Comparative study of *C. adamanteus* and *N. flava*, Radomski & Deichmann (1).—Proteolytic activity of *B. jararaca* venom, Henriques et al.

Treatment: Antivenines.—On standardization of antivenines, **Maaløe**.—Study of action of antihistamines on venom bite, **Lefrou & Michard**.—Notes on treatment of human and animal victims, **Parrish, H. M.**—For S. Africa, **Christensen**.—On specific antivenine for *Ancistrodon rhodostoma*, **Martin & Mathieu**.—*C. adamanteus* and antidotal effects of hydrocortisone, **Deichmann, et al.**

GEOGRAPHICAL DISTRIBUTION

General: Zoogeography.—**Carr**.—**Neill (2)**.—**Gijzen & Wermuth**.—Wallace's Line and the distribution of reptiles, **Brongersma (8)**.—Biogeography of the Balearic Islands, **Colom (1)**.—Of Eastern Canada, **Bleakney (1)**.—Distributional patterns in Southern United States, **Blair**.—Comments on the origin of the herpetofauna of Florida, **Goin**.—Geographic relations of Ozarkian, Arkansas amphibians and reptiles, **Dowling (1)**.—Of the Auyantepui region, Bolivar State, Venezuela, **Roze (2)**.—The distribution of terrestrial reptiles in the Pacific basin islands, **Brown, W. C.**—Distribution of reptiles in New Zealand, **McCann**.

PALEARCTIC REGION

Wermuth (5), (6).

Europe.—**Carr & Caldwell**.—**Menne**.—**Pitman**.—**Sternfeld**.—**Steward**.—**Wermuth (1)**.—

Gt. Britain.—**Appleby (1), (2).**

England.—**Broadley (5)**.—(*Dorset*), **Gooch**.—(*Cambridgeshire, Dernford Fen*), **Sharp**.—(*Northamptonshire*), **Blackwell**.—(*Lundy Id.*) **Hewitt**.

Africa.—**Loveridge**.—(*North*), **Condamin**.—**Wermuth**.—(*Tunisia*), **Adler (7)**.—(*French North*), **Villiers**.—(*Morocco, Ifrane region*), **Bons**.—(*Morocco*), **Pasteur & Bons**.—**Varaldi**.—(*Libya*), **Kramer & Schnurrenberger**.—**Schnurrenberger (2)**.—(*Somaliland*), **Cherchi (1), (2), (3), (4), (5).**

Armenia.—**Darewskij (1)**.—**Peters, G.**

Asia.—(*South West; Sinai*), **Hoofien (1)**.—(*Central*), **Obst**.

Austria.—(*Burgenlandes*), **Sochurek**.—**Walter**.

Bulgaria.—**Adler (7).**

China.—**Wermuth (4)**.—(*Mongolia; Kyrzl-Kum Desert*), **Sycoyechkovsky**.—(*Mongolia*), **Bannikov**.

Czechoslovakia. Reference in volume 94 1957 to Brelhi should read Slovenia, Yugoslavia.

Egypt.—**Badir**.—**Marx (2).**

France.—**Bounhiol & Lahargue**.—**Germaine**.—**Kramer (2)**.—**Marsille**.—(*Normandy*), **Arnoult**.—(*Grande-Brière*), **Bodin & Duguy**.—(*Barrois, Lorraine*), **Condé & Mathieu**.—(*Banyuls*), **Duguy & Philippe-Knoepfler**.—(*Nantes*), **Duguy**.

Germany.—**Frommhold**.—**Wermuth (1)**.—(*Bamberg*), **Heilingbrunner**.—(*Rhön, Tann*) **Fisher**.—(*Hanover*), **Krüger**.

Holland.—**Bree**.—**Oomen**.—**Roding (1)**.—(*St. Peter's Hill, [St. Pietersburg], Maastricht*), **Brongersma (7)**.—(*Twente*), **Roding (2).**

Hungary.—**Szunyoghy**.—(*Carpathians*), **Dudich**.—(*Pilis*), **Szabó**.—(*Tisza*), **Marián**.

Israel.—**Adler (7)**.—**Hoofien (2)**.—**Wermuth (2).**

Italy.—**Kramer (3)**.—**Lanza**.—(*Liguria*), **Capocaccia**.—(*Puschlavs*), **Kramer (1)**.—(*Mount Argentario and Elba*), **Lanza**.

Japan.—**Alexander & Diener**.—**Fukada (1), (2)**.—**Takashima**.

Jugo-Slavia.—**Adler (7)**.—**Radovanovic**.

Korea.—**Walley (1), (2).**

Lapland.—**Curry-Lindhal, (1).**

Loo Choo Islands.—(*Riu Kiu Islands*), (*Amami Group*), **Koba**.

Mediterranean.—(*Balearic Ids.*), **Colom (1), (2)**.—**Mertens (1)**.—(*Minorca*), **Sacchi**.

Mongolia.—**Bannikov**.—(*Kyrzl-Kum Desert*), **Sycoyechkovsky**.

Poland.—**Fudakowski**.—**Młynarski**.

Portugal.—**Pissarro**.

Roumania.—**Klemm, W.**—**Stugren**.

Russia.—**Viushkov**.—(*Caucasus*), **Vereshchagin**.—(*Cola peninsula*), **Novikov**.—(*Transcaucasica*), **Rotter (1)**.—(*Kazakhstan*), **Bajanov**.—**Kouznetzov (2), (3), (4)**.—(*N. Tian Shan*), **Khodzatzky (1)**.—(*Prearal*), **Kouznetzov (1).**

Spain.—Adler (7).—Valverde.—(*Cota Doñana*), Mountfort.

Switzerland.—(*Puschlavs*), Kramer (1).—(*Valais*), Mariétan.

Syria.—Wermuth (2).

Turkey.—(*Anatolia*), Hellmich (3).

Tyrrhenian Sea.—(*Elba*), Lanza.

Yugoslavia (Slovenia). See Vol. 94 (1957) Brelj, S.

ORIENTAL REGION

Wermuth (6).

Asia.—Ruiter (1).

Borneo.—Adler (1).—Inger (1), (2).—(*Sarawak*), Harrison.—Hendrikson.

Ceylon.—Adler (7).—Butler.—Deraniyagala (1), (2), (3).—List.—(*Ruhunu Game Sanctuary*), Deraniyagala, R. Y.

China.—Romer, J. D. (1).—(*Chekiang*), Hu, Hwang, Ho & Wei.

Hongkong.—Romer, J. D. (2).

India.—Adler (7).—Krishna Pillai.—Morris.—Sondhi.—(*Barkuda Id.*), Ganapati & Rajyalakshmi.—(*Bihar*), Achari.

Indian Archipelago.—Brongersma (4).

Java.—Bergman (1).

Malaya.—Bergman (2).—Hendrikson.—Hendrickson & Alfred.—Hoesel.—Waters.—Boo-Liat (2).—(*Malay Archipelago*), Brongersma (2).—(*Palau [Pelew] Islands*), Brown & Fehlmann.—(*Flores*), Hoesel.—(*Lesser Sunda Island, Flores*), Brongersma (3).—(*Kuala Lumpur*), Boo-Liat (1).—Reid.—(*Malacca, Asahan*), Batchelor.—(*Kedah*), Boo-Liat (3).—(*Penang*), Pagden.—(*Sunda Archipelago*), Hoogerwerf.

Maldiv Islands.—Klauserwitz.—Phillips.

Philippine Ids.—Alcala.—(*Negros Id.*), Rabor, Alcala & Gonzales.

Thailand.—(*Siam*).—Penyapol (1), (2).—Taylor & Elbel.

Viet-Nam.—Barme.—Mille, Le Minor & Capponi.

AUSTRIAN REGION AND POLYNESIA

Bergman (2).

Australia.—Adler (3), (7).—Bogert (1).—Cogger.—Fleay.—Lawson.—

McLoughlin.—Mertens, (2), (4), (8).—Mitchell.—Oliver (1).—Sadleir.—Sporn.—Warham (1), (2).—Williams, E. E.—(*Cairns*), Hosmer.—(*Queensland*), Irvine.—Reilly.—(*King's Park*), Glauert.

New Caledonia.—Gail & Rageau.

New Guinea.—Bogert (1).—Brongersma (5).—Inger (1).—Oliver (1).—Worrell.—(*Dutch*), Brongersma (6).

New Zealand.—McCann.—Mertens (6).—Nielsen.—Stemmler.—Morath.

Pacific Basin.—Brown, W. C.

Solomon Islands.—(*Rennell Island*), Volsøe (1), (2).

ETHIOPIAN REGION

Africa.—Broadley (2).—Lombard.—Liveridge.—Niftrik.—Pitman.—Pope.—Rand.

West Africa.—Cansdale.—(*Liberia*), Taylor & Weyer.—(*Nigeria*), Adler (7).—(*Portuguese Guinea*), Manafas (2).—(*Sierra Leone*), Menzies.—(*São Tomé, Principe Ids.*, *Rolas Islet*), Manafas (3).

East Africa.—Ionides.—(*Kenya*), Adler (7).—(*Mozambique*), Fitzsimons (1).—Manafas (1).—(*Nyasaland*), Broadley (8), (9).—(*Somaliland, N.*), Scortecci.—(*Tanganyika*), Vesey-Fitzgerald (1).—(*L. Tanganyika*), Vesey-Fitzgerald (2).

Central Africa.—(*Belgian Congo*), Adler (7).—Laurent.—(*Rhodesia*), Broadley (1), (7), (8), (9).—Herpetological Ass. of Rhodesia.—Rider.—Tasman.—Wilson.—(*Rhodesia, S.*), Broadley (3), (4), (6).—Fitzsimons (2).—Fitzsimons & Brain (3).—(*Rhodesia, N.*), Vesey-Fitzgerald (1).

South Africa.—Cairncross.—Curry-Lindahl (2).—Keyter.—Smith, J. L. B.—Wager.—(*Namib*), Brain.—(*Kalahari Gemsbok National Park*), Fitzsimons & Brain (4).—(*Angola*), Adler (7).—Mertens (3).—(*Angola, Dundo*), Machado.

Madagascar.—Auffenberg.—Guibé (1).—Tuzet & Manier.

Seychelle Ids.—Ridley & Percy.

NEARCTIC REGION

Bermuda.—Carr & Caldwell.—Mowbray & Caldwell.

Canada.—Bleakney (3).—Conant (1).—(*Eastern*), Bleakney (1).—(*Lake Erie Islands*), Camin & Ehrlich.—(*Long*

Point, Ontario), Adams & Clark.—(S. Ontario and Quebec), Bleakney (2).—(Manitoba), Bird.—(British Columbia), Carl & Guiguet.—(Saskatchewan), Nero (2).

United States of America.—Blair.—Conant (1).—Cowles & Phelan.—Gloyd.—Oliver (2).—Parrish & Thompson.—Savage (1).—(South), Wermuth (3).

North Eastern States.—Conant (4).—Hartman.—(Delaware, Delmarva Peninsula), Conant (2).—(Delmarva), Reed (1), (2).—(Illinois), Keiser.—Smith, P. W. & Hensley (1).—(Illinois, Jefferson County), Estes.—(Illinois, Jackson County), Rossman.—(Indiana), Adler (7).—Meyer.—Minton & Bechtel.—(Maine, Gulf), Ray & Coates.—(Maryland), Reed (1), (2).—(Michigan), Carpenter (3).—Hahn.—Wegner, W.—(Michigan, Washtenaw County), Test.—(Minnesota), Brattstrom (2).—(New Jersey), Adler (7).—Reed (1).—(New York, Long Island), Sturn & Brattstrom.—(Ohio), Adler (2), (5), (6), (7).—Amorose.—Dennis (1), (2), (3), (4).—McMahon.—(Ohio, Geauga County), Wood.—(Pennsylvania), Adler (7).—Guilday & Bender.—(Wisconsin), Adler (7).

South Eastern States.—Gordon.—Hartman.—(Alabama), Tinkle (2).—(Arkansas, Benton County), Crooks & Smith.—(Arkansas, Ozark plateau and Ouachita Mountains), Dowling (1).—(Florida), Adler (7).—Arata.—Archbold.—Caldwell.—Goin.—Hamilton.—Holman.—†Neill (3).—Neill, Gut & Brodkorb.—Parrish, H. M.—Richmond.—(Florida, S.), Duellman & Schwartz.—(Florida, Merritt Id. and Duval County), Neill (2).—(Florida, Miami), Myers.—(S. Carolina, Savannah river project area), Freeman.—(Georgia), Hamilton & Pollack.—(Louisiana), Adler (7).—Anderson.—(Maryland), Cooper (2), (3).—(Mississippi), Anderson.—Cliburn.—(Mississippi, Panhandle Counties), Brode & Allison.—(Tennessee), Sutherland.—(Tennessee, Reelfoot Lake), Goodman.—(Virginia), Cooper (2).—(Virginia, Blue Ridge Mountains), Witt.

Middle and Western States.—(Western), Tanner (1).—(Arizona), Adler (7).—Smith, P. W. & Hensley (1).—Tanner (5).—Williams & Chrapliwy.—(Colorado), Maslin.—Shaw (3).—Tanner (4).—(Kansas), Earle.—Fitch (1).—Pea-

body.—(Kansas, Lyon County), Clarke, Breukelman & Andrews.—(Kansas, Natural history reservation), Fitch (2).—(Montana, N.), Tanner (5).—(†Nevada), Brattstrom (3).—(New Mexico), Bundy & Neess.—Gehlbach.—(Oklahoma), Adler (7).—Carpenter (1), (2).—McCoy.—(Oregon, Baker County), Ferguson, Payne & Storm.—(Texas), Adler (7).—Dixon.—Duellman (1).—(Texas, Brewster County), Davis & Dixon.—(Utah), Maslin.—Tanner (5).—(Utah, Glen Canyon), Tanner, (4).

Pacific Coast States.—(California), Adler (7).—Cunningham.—Glaser.—Hourck & Joseph.—Norris.—Peabody & Savage.—Robinson.—Stebbins (1).—Stebbins & Eakin.—Tanner (1).—(California, Contra Costa and Santa Clara Counties), Crawford.—(California, San Bernardino County), Harris.—Lawrence & Wilhoft.—(California, San Luis Obispo County), Pimental.—(California, Marin County), Leviton & Kessel.—(Baja California islands), Zweifel (1).—(Oregon), Ferguson, Payne & Storm.

CENTRAL AMERICA

Costa Rica.—Shreve & Gans.

Guatemala.—(Northern El Peten), Stuart.

Mexico.—Adler (7).—Axtell.—Carr & Caldwell.—Duellman (1), (2), (4).—Humphrey & Shannon.—Maslin, Beidleman & Lowe.—Mosiman (3).—Norris.—Poglayen & Smith.—Schmidt (2).—Smith, H. M. & Chrapliwy (4).—Smith, P. W. & Hensley (1).—Turner.—Webb.—Wermuth (3).—Williams, K. L. & Smith, H. M.—(Gulf), Tinkle (1).—(Baja California), Tanner (1).—(Chihuahua), Tanner, (2).—(Coahuila), Zweifel (2).—(Chiapas), Alvarez del Toro & Smith.—(Colima), Duellman (3).—(Durango), Tanner (3).—(Jalisco), Smith, H. M. & Grant (5).—(Puebla and Veracruz), Fugler & Dixon).—(San Marcos Id.), Cliff.—(Sonora), Smith, P. W. & Hensley (2).—(Tamaulipas), Martin, P. S.—(Veracruz), Klein.

Nicaragua.—Shreve & Gans.

Panama.—Lundy.—Smith, H. M. (2).—Smith, H. M. & Grant (6).

Salvador.—Uzzell & Starrett.

West Indies.—Duellman (1).—(Barbados), Grant (3).—(Cuba), Brattstrom (1).—Cooper (1).—Grant (2).—Hardy

(1), (2), (3).—Schwartz (1), (2).—Smith, H. M. & Grant (7).—(*Isla de Pinos*), Zug & Schwartz.—(*French Antilles*), Morice.

SOUTH AMERICA

Adler (7).—Duellman (1).—Hellmich. —Hose.—Sievers.—Smith, H. M. & List (9).—Uzzell (2).—Zimmer.

Argentine.—Hellmich (1).—(*Buenos Aires*), Ringuelet & Aramburu.

Brazil.—Adler (4), (7).—Cunha.—Habermann.—Hose.—Lema (1).—Medem (1).—Vanzolini (1).—Vogel.—(*District Rio Grande do Sul*), Lema (2).—(*Parque Nacional do Itatiaia*), Barth.

Chile.—Donoso-Barros (1), (2), (3).

Colombia.—Adler (7).—Medem (1), (2), (3), (4).—Zangerl & Medem.—(*Bogota*), Uzzell.

Ecuador.—Medem (1).—Peters, J. A.

Galapagos Islands.—Staedeli.

Guiana.—(*British*), Burger.—Medem (1).

Peru.—Medem (1).

Trinidad.—Burger.

Venezuela.—Burger.—Roze (1), (2), (4).—(*Estado Bolivar*), Roze (3).

PALAEONTOLOGY AND GEOLOGICAL DISTRIBUTION

Pleistocene.—Brattstrom (1), (3).—Neill (1), (3).—Swinton (1).

Tertiary.—Bazhanov & Pigulevski.

Miocene.—Kouznetsov (1), (3).

Oligocene.—Kouznetsov (2).

Paleocene.—Langston.

Eocene.—Holman.—Swinton (1).

Cretaceous.—Colbert & Ostrom.—Delair.—Dughi & Sirugue (1), (2).—Edmund.—Janensch.—Lapparent (1), (2), (3).—Sternberg.—Swinton (1).

Jurassic.—Delair.—Hoffstetter & Brun (2), (3).—Robinson, P. L. (2).—Swinton.

Triassic.—Baird.—Bond.—Colbert (1), (2).—Colbert & Baird.—Crompton.—Robinson, P. L.—Swinton (1).

Permian.—Swinton (1).—Vaughn.—Virushkov.

Carboniferous.—Swinton.

III.—SYSTEMATIC INDEX

THE ORDERS AND FAMILIES AND GENERA WITHIN THEM, ARE ALPHABETICALLY ARRANGED.

References to the "Titles" is by the name(s) of the Author(s) printed in Clarendon type.

REPTILIA

General: Fossil.—Classification of vertebrates, comparative anatomy, Baer. —Environment and Extinction of Fossil Reptiles, Colbert (1).—Reptile Groups replaced at end of Triassic, Colbert (2).—Historical biogeography of present-day Florida, Neill (3).—Notes on origin of herpetological fauna of Roumania, Stugren.—Fossils descr. and figd. in British Museum Handbook, Swinton (1).

General: Recent.—Synopsis of the reptiles of Japan [In Japanese, names in English], Takashima.—Classification of vertebrates, comparative anatomy, Baer.—General works, vernacular names, general characters, habitats, photographs, Frommhold.—Taschenbuch der heimischen Amphibien und Reptilien, 9 text figs., 32 col. plates, etc., Wermuth (1).—Taxonomy of the salivary glands of vertebrates, Tucker.—Biogeography of The Balearic Ids., Colom (1).—Report on the faunistic and floristic research on St. Pester's Hill (St. Petersburg), Maastricht, Netherland, Brongersma (7).—Herpetofaunal survey of Long Point, Ontario, Adams & Clark.—Zoogeography of eastern Canada, Bleakney (1).—Amphibians and reptiles of southern Florida, variation, ecology, life history, habits and distributions, figures, Duellman & Schwartz.—Preliminary analysis of the fauna of Colima, Mexico, Duellman (3).—Reptiles of the Gomez Farias Region, Tamaulipas, Mexico, biogeography, Martin, P. S.—Of Phelps-Tate collection from Venezuela, Bolivar State and zoogeography, some new species, Roze (2).—Reptiles of the Kalahari Gemsbok National Park, Fitzsimons & Brain (4).—Of Saó Tomé and Principe Ids. and Rolas Islet, Manacas (3).—The animal world of Dutch New Guinea, fauna, origin, zoological exploration, figures, Brongersma (6).—Herpetology

of Rennell Id., **Volsøe** (1).—List of fauna of Negros Id., **Rabor, Alcalá & Gonzales**.—Of Thailand, figs., **Taylor & Elbel**.

†COTYLOSAURIA

ARAEOSCELEIDIN

Full description of *Araeoscelis*, **Vaughn**.

CROCODYLIA

General: Recent.—Field guide to U.S.A. and Canada, figs., col. pls., etc., **Conant** (1).—On the skull, especially the nasal regions, plates, figs., **Wegner, R. N.**—Of Colombia, geographic range, ecology, parasites, food, conservation, photographs, **Medem** (3).—Of French N. Africa, structure, systematics, biology, photographs, key to genera and species, figs., **Villiers**.—Of Thailand, **Taylor & Elbel**.

†*Teleosaurus*, *Steneosaurus*, *Machimosaurus*, *Dakosaurus*, *Metrohynchus*, *Goniopholis*, *Petrosuchus*, *Nannosuchus*, *Theriosuchus*, *Oweniasuchus* and *Pholidosaurus*. Fossils from Dorset, **Delair**.

Alligator, Effects of hormones on carbohydrate metabolism, **Stevenson, Coulson & Hernandez**.—*A. mississippiensis* is correct for N. American alligator, **Direction 97**.—Of Florida, **Adler** (7).—Excretion of nitrogen by embryo, **Clark, Sisken & Shannon**.—In Field guide, figs., **Conant** (1).—Natural history of visual pigments, **Crescitelli** (2).—Of S. Florida, **Duellman & Schwartz**.—Superior olive, facial and auditory nerves, **Gillaspay**.—On tooth succession, plates, **Kvam**.—On saltwater association, **Neill** (2).—On the skull, plates, figs., **Wegner, R. N.**

Alligator sinensis, On saltwater association, **Neill** (2).—On the skull, plates, figs., **Wegner, R. N.**

Caiman, Of Colombia, geographic range, ecology, etc., *sclerops fuscus* (photogr.), *s. chiapensis*, *s. apaporicensis* (photogr.), *s. subsp. nov.*, **Medem** (3).—*C. crocodilus fuscus*, of Colombia, **Adler** (7).—*C. latirostris*, experimental anaesthetics, **Ferreira & Leão**.—On the skull, plates, figs., **Wegner, R. N.**—*sclerops*, in Field guide, figs., **Conant** (1).—Saltwater association, **Neill** (2).—On auditory responses, figs., **Wever & Vernon**.

Champse brevirostris **Werner** 1933, is a synonym of *Crocodylus palustris kimbula* **Deraniyagala** 1936, and this gives way to *C. p. brevirostris* (**Werner**) 1933 on priority grounds, **Wettstein**.

Crocodylus, On its place in nature, **King**.—Of Colombia, geographic range, ecology, etc., *acutus* (photogr.), *intermedius* (photogr.), **Medem** (3).—Of French N. Africa, descrip., general habits, etc., key to species, *niloticus* (figs., photographs), *cataphractus*, (figs., photographs), **Villiers**.—On saltwater associations, *acutus*, *siamensis*, *palustris*, *niloticus*, *cataphractus*, *rhombifer*, **Neill** (2).

Crocodylus acutus, Of Florida, **Adler** (7).—In Field guide, figs., **Conant** (1).—Of S. Florida, **Duellman & Schwartz**.—*C. acutus acutus*, Distribution in Colima, **Duellman** (3).

Crocodylus intermedius, On cranial anatomy, geographical distribution and ecology in Colombia, food, parasites, reproduction and behaviour, figs., **Medem** (2).

Crocodylus johnstoni, On the skull, plates, figs., **Wegner, R. N.**

Crocodylus moreleti, Of Belize, **Adler** (7).—From Peten, Guatemala, Tikal, Uaxactún, **Stuart**.—On the skull, plates, figs., **Wegner, R. N.**

Crocodylus niloticus, Of Angola and Belgian Congo, **Adler** (7).—On histology, **Arvy & Bonichon** (1).—On the supra-renal gland, **Arvy & Bonichon** (2).—Histology of hypothalamus **Gabe & Rancurel**.—The metaphase chromosomes, figs., **Hollingsworth**.—On nitrogenous excretion, **Khalil & Haggag**.—On the skull, plates, figs., **Wegner, R. N.**

Crocodylus novaeguineae, On occurrence in Dutch New Guinea, **Brongersma** (5).—Of Dutch New Guinea, general notes, fig., **Brongersma** (6).

Crocodylus palustris, On the skull, plates, figs., **Wegner, R. N.**—*C. palustris kimbula* **Deraniyagala** 1936 must be called *Crocodylus palustris brevirostris* (**Werner**) 1933, on priority grounds, **Wettstein**.

Crocodylus porosus, Fig., of Dutch New Guinea, general notes, **Brongersma** (6).—On salt glands, **Schmidt, Nielsen & Fange**.—On the skull, plates, figs., **Wegner, R. N.**

Crocodylus siamensis, Of Thailand, Taylor & Elbel.

Gavialis gangeticus, The hyoid and associated structures, figs., Sondhi.—On the skull, plates, figs., Wegner, R. N.

Jacaretinga [*Paleosuchus*] *palpebrosus*, Experimental anaesthetics, Ferreira & Leão.

Melanosuchus niger, Of Colombia, Adler (7).—Of Colombia, geographic range, ecology, photogr., Medem (3).—On the skull, plate, figs., Wegner, R. N.

Osteolaemus tetraspis, Saltwater association, Neill (2).—Of French N. Africa, descrip. general habits, etc., figs., photographs, Villiers.—On the skull, plates, figs., Wegner, R. N.

Paleosuchus, Synonymy, ecological notes; *palpebrosus*, skull fig., *trigonatus*, skull figd., Medem (1).—*P. trigonatus*, Of Bolivar, Venezuela, Roze (2).—and *palpebrosus*, Of Colombia, geographic range, ecology, Medem (3).

Tomistoma schlegelii, On the skull, plate, Wegner, R. N.

†EOSUCHIA

Gigantism in *Champsosaurus*, Langston.

†ICHTHYOPTERYGIA

Ichthyosaurus remains from W. Kazakhstan, Bajanov, V. S.

†ICTIDOSAURIA

Olijoekyphus in Somerset Lower Lias fissures, Robinson, P. L. (3).

†ORNITHISCHIA

Ornithopoda.—*Dysalotosaurus lettowvorbecki* from Tendaguru, fully descr. and figd., Janensch.—*Rhabdodon priscum* in Dania of Saint-Chinian, France, Lapparent, A. F. de (3). a juvenile hadrosaur from Steeveville, Alberta. Jaws descr., and figd., Steinberg.—Brain size and development. Swinton (2).

Stapes in *Corythosaurus*, Colbert & Ostrom.—Foramina on inner side of many ornithischian jaws are for dental lamina and are not nutritive openings, Edmund.—Observations on Stegosaur, Hoffstetter (1).—Stegosaur in Jurassic of Calvados, Hoffstetter & Brun (2).—Stegosaur of Calvados and distinction between *Omosaurus* and *Stegosaurus*, Hoffstetter & Brun (3).—*Iguanodon* and

an Acanthopholid from Central Sahara, Lapparent (1).—*Struthiosaurus ugdunensis* in Cretaceous of Saint-Cherian, France. Reconstruction, Lapparent, A. F. de (3).—Theory of extinction, a physiological and pathological explanation based on the supposed existence of O₂ in the Mesozoic, Schatz (1).—Objection to theory put forward by Schatz on extinction, Cowles (2).—Reply to objection made by Cowles (2) on Theory, Schatz (2).

†PHYTOSAURIA

Apatopus lineatus gen. nov. for *Otozoum? lineatus* Bock. Footprint in Trias of N. Jersey, Bull. Mus. Comp. Zool., Harvd., 117 (5), 1957, p. 486 Baird.

†PROTOSAURIA

Tricuspisaurus thomasi gen. & sp. nov. (p. 291) and *Variodens inopinatus* gen. & sp. nov. (p. 292). Dentaries descr. and figd. from Upper Triassic of Somerset and Glamorgan. J. Linn. Soc. (Zool.) 43, No. 291, 1957, Robinson, P. L.

†PSEUDOSUCHIA

Chirotherium parvum and *C. eyermani* sp. nov. (p. 479) from Trias of New Jersey, Bull. Mus. Comp. Zool. Harvd. 117 (5) 1957, Baird.

†PTEROSAURIA

Dimorphodon macronys, *Rhamphorhynchus*, *Pterodactylus pleydelli*, *Doratorhynchus* and *Ornithocheirus* fossils from Dorset, Delair.

RHYNCHOCEPHALIA

†*Glevosaurus hudsoni* in Gloucestershire Triassic fissures, Robinson, P. L. (2).

†*Rhynchosauroides hyperbates* sp. nov. (p. 494) and *R. sp.* Footprints in Trias New Jersey, Bull. mus. Comp. Zool. Harvd., 117 (5) 1957, Baird.

Sphenodon, Bone tissue histology Enlow & Brown.—*S. punctatus*, General observations, photographs, Mertens (6).—On saltwater association, Neill (2).—General notes, photographs, Nielsen.—Experimental study on 'median eye', Stebbins (2).—In captivity, photograph. Stemmler-Morath.—Pineal circulation compared with some lizards, Steyn (2).

†SAURISCHIA

Sauropoda.—*Titanosaurus indicus* in Danian of Quarante, *Hypselosaurus* *griscus* Danian of Montouliers, of Saint-Chinian, France, Lapparent, A. F. de (3).

Theropoda.—On *Anchisauripus* Lull and *Otouphepus* Cushman—names of footprints, Colbert (3).—*Grallator sulatus*, sp. nov. (p. 453) *Anchisauripus milfordensis* and *A. parallelus* Footprints in Trias of New Jersey, Bull. Mus. Comp. Zool. Harvd., 117 (5) 1957, Baird.—*Massospondylus harriesi* Broom, *M. carinatus* Owen and *Thecospondosaurus skirtopodus* (Seeley) from Forest Sandstone, S. Rhodesia, Bond.

Coelophysis from Triassic of Connecticut, Colbert & Baird.—Stapes in *Dromaeosaurus*, Colbert & Ostrom.—Theory of extinction of dinosaurs based on supposed excess O₂ in the Mesozoic atmosphere, Schatz (1).—Objection to theory of dinosaur extinction, Cowles (2).—Reply to Cowle's objection of theory of dinosaur extinction, Schatz (2).—Eggs of dinosaurs presumably of this kind in the Upper Cretaceous of Calvados, Dughi & Sirugue (1).—Aix-en-Provence dinosaur eggs of upper cognacien age limit, Dughi & Sirugue (2).—At least 9 different kinds of eggs at Aix-en-Provence, Dughi & Sirugue (3).—3 types of eggs at Bégudien different from those at Rognéux, Dughi & Sirugue (4).—4 Theropod and Sauropod genera including *Elaphrosaurus* sp. and *Carcharodontosaurus* (sic) in Central Sahara, Lapparent (1).—Dinosaur eggs in Spain—the sixth place of egg discovery and the third in abundance in the world, Lapparent (2).—Brain size and development, Swinton (2).

†SAUROPTERYGIA

Pliosaurus from W. Kazakhstan, Tashanov, V. S.

†THERAPSIDA

Ichthyosauria.—*Diarthrognathus broomi* n. & sp. nov., Trias of Orange Free State, S. Africa. Proc. Zool. Soc. Lond., 130 (2) 1958, p. 184, Crompton.

SQUAMATA

SAURIA

General: Recent.—Field guide to S.A. and Canada, figs., col. pls., etc.,

(not itemized in Systematic Section), Conant (1).—On food and pests, Klemm, M.—Biogeography of the Gomez Farias Region, Tamaulipas, Mexico, Martin, P. S.—Of Thailand, figs., Taylor & Elbel.

Genera Incertae Sedis.—†*Macellodus brodiei* and sps. from Purbeck of Dorset, Delair.

AGAMIDAE

Zoogeography of the Pacific Basin, Brown, W. C.

Agama agama, On bird eating, Pitman.—*A. a. africana*, From Liberia, Taylor & Weyer.

Agama anchietae anchietae, Probably in Kalahari Gemsbok National Park, Fitzsimons & Brain (4).

Agama atra, On speciation, Hoesch.—On permeability of epiphysis to vital dyes, Steyn (1).—Pineal circulation, figs., Steyn (2).

Agama brachydactyla, In captivity, Landwehr.

Agama caucasica, Hints on care, Obst.—Of Transcaucasica, Rotter (1).

Agama cyanogaster (atricollis), On bird eating, Pitman.

Agama hispida aculeata, Of Kalahari Gemsbok National Park, Fitzsimons & Brain (4).—*A. h. armata*, From Nyamaziwa, 5,000–6,000 ft., Inyanga Dist., S. Rhodesia, Fitzsimons (2).

Agama kirkii fitzsimonsi, From Nyamaziwa, 5,000–6,000 ft., Inyanga Dist., S. Rhodesia, Fitzsimons (2).

Agama lehmanni, Hints on care, Obst.

Agama robecchii, Of Somaliland, including some natural history notes, photographs, Cherchi (3).

Agama sanguinolenta, On food and pests, Klemm, M.

Agama stellio, On food and pests, Klemm, M.—General habit notes, Lehmann (1).—Of Transcaucasica, Rotter (1).—*A. s. brachydactyla*, In captivity, photograph, Brehm.

Amphibolurus adelaidensis, Of King's Park, Glauert.—Of S.W. coast of Australia, Mertens (8).—*A. ornatus*, Photographs, Warham (1).

Calotes, Of Thailand, key to species, *floweri*, *versicolor*, *emma*, *mystaceus* Taylor & Elbel.—? *cristatellus*, Gliding observed, Reid.—*C. cristatellus molucanus*, On saltwater association, Neill (2).—*C. versicolor*, Of the Maldives, Klauswitz.—In captivity, photograph, Landwehr.—The subcommisural organ, morphology and function, figs., Pandalai.—Of Hululaé Id., N. Malé Atoll, Maldives, Phillips.

[*Chlamydosaurus kingii*], Popular article, photographs, Bogert (1).—*C. kingii*, photograph, Anon. (1).—Of Dutch New Guinea, general notes, Brongersma (6).

Draco, Observations on gliding, Herre.—Of Thailand, key to species, *whiteheadi*, *haasi*, *maculatus*, *blanfordi*, *melanopogon*, Taylor & Elbel.—*D. dussumieri*, On the heart, conducting system, Prakash & Raghavaiah.

Goniocephalus armatus armatus, *a. crucigerus*, Of Thailand, Taylor & Elbel.—*G. godeffroyi*, On distribution in Pacific Ids., zoogeography, Brown, W. C.

Hydrosaurus, Saltwater association, Neill (2).—*H. amboinensis*, On food and pests, Klemm, M.

Japalura polygonata, of Amami Group, Loo Choo Ids., Koba.

Leiolepis Anduboni Hallowell = *Polychrus marmoratus* (Linn.), Roze (1).—*L. belli*, On food and pests, Klemm, M.—*L. belliana belliana*, Of Thailand, Taylor & Elbel.—*L. b. guttata*, On Viet-Nam specimens parasitized by *Salmonella*, Mille, Le Minor & Capponi.

Moloch horridus, Breeding ages, incubation, growth, Sporn.—Photograph of head, Warham (1).—General notes, Warham (2).

Phrynocephalus versicolor, *mystaceus*, Hints on care, Obst.

Physignathus cocincinus, Of Thailand, Taylor & Elbel.—*P. temporalis*, *leseueri*, Saltwater association, Neill (2).

Sitana ponticeriana mucronata, subsp. nov., Type locality, Hiniduma, S. Province, Ceylon, 2,000 ft., Admin. Rept. Director N. Mus. Ceylon, 1957 (1958) pt. 4 E: pp. 4–5, figure, Deraniyagala (1).

Uromastix aegyptius, *acanthinurus*, *hardwickii*, On food and pests, Klemm,

M.—*U. hardwickii*, In captivity, Landwehr.—On water conservation; and malar Mullerian ducts, Seshadri.—*C. princeps*, On temperature tolerance, Cherchi (7).—*U. princeps scortecci*, Of Somaliland, including some natural history notes, photographs, Cherchi (1).—*U. princeps settentrionale* (?) O. Ahl Mascot, N. Somaliland, Scortecci.

AMPHISBAENIDAE

Amphisbaena darwini, Anatomical-histological study of liver and biliary system, figs., Carlo.—*A. violacea violacea*, Of Mozambique, Manaças (1).

Blanus cinereus, From Morocco, Ifrane region, Bons.—From Cota Doñana, Spain, figs., Mountfort.

Cadea palirostrata, *blanoides* (first record), from the Isla de Pinos, Zug & Schwartz.

Cynisca feae, From Portuguese Guinea, Manaças (2).

Monopeltis haberichti, From Mozambique, Manaças (1).—*M. leonhardi*, Of and *ocularis*, probably in, Kalahari Gemsbok National Park, Fitzsimons & Brain (4).

Shrevea quadrifrons dolichomenta, From Tshuapa, Belgian Congo, Laurent.

Trogonophis weigmanni Saltwater association, Neill (2).—*T. w. maroccana*, Of Morocco, photograph, Varaldi.

ANELTROPIDAE

Anelytropis papillosus, Northerly record, 23° 43' N. × 99° 09' W., 1,100 ft., Ciudad Victoria, Tamaulipas, on road to Jaumave, Mexico, head figd., Axtell.

Feylinia, if any, see under FEYLINIDAE.

ANGUIDAE

Gerrhonotine members: Review of genera, *Abronia*, *Barisia*, *Elgaria*, *Gerrhonotus*, *Coloptychon*; and proposed taxonomic arrangement:—*Gerrhonotus* subgenus, *Gerrhonotus*, includes species, *kingi*, *panamintinus*, *multicarinatus*, *cedrosensis*, *paucicarinatus*, *liocephalus*: subgenus *Barisia*, includes species, *antagaus*, *coeruleus*, *gadovi*, *imbricatus* (*levicollis* regarded as a subspecies), *modestus*, *monticolus*, *moreleti*, *rudicollis*, *viridiflavus*:—*Abronia*, *Coloptychon*, Stebbins (1).

Abronia taeniata, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**

Anguis fragilis, Mainly on feeding, **Broadley (5)**.—Collected on St. Peter's Hill (St. Petersburg), Maastricht, Netherland, **Brongersma (7)**.—From Banyuls, **Duguy & Philippe-Knoepffler**.—Of Germany, general work, photograph, note of 33 years old specimen, **Frommhold**.—Of Dorset, **Gooch**.—Of Bamberg, Bavaria, **Heilingbrunner**.—Saltwater association, **Neill (2)**.—On the function of the parietalorgan, **Roth & Braun**.—Of Transcaucasica, **Rotter (1)**.—General work on German fauna, col. plate, etc., **Wermuth (1)**.—(†) On origin in Roumania, **Stugren**.—*A. f. fragilis*, Of Hungary, Pilis, some nature notes, fig., **Szabó**. CORRECTION. —Recorded in volume 94 (1957) erroneously from Czechoslovakia, should read as, Slovenia, Yugoslavia, **Brelj, S.**

Celestus rozellae, From Tikal, Peten, Guatemala, **Stuart**.

Diploglossus, Saltwater association, species named, **Neill (2)**.—*D. lessonae*, Ontogenetic evolution of colour pattern; types of *lessonae* and of synonym *tenuifasciatus* were compared and position remains unchanged, **Vanzolini (1)**.

Elgaria multicarinata webbi, m. *multicarinata*, *kingii*, c. *coerulea*, c. *palmeri*, On egg numbers, California, **Cunningham**.

Gerrhonotus liocephalus, l. *loweryi*, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*G. multicarinatus*, On Pine Mtns., California, **Pimental**.—*G. m. ignavus*, From San Martin Id., Baja California, **Zweifel (1)**.—*G. panamintinus*, sp. nov., type loc., Surprise Canyon, 4,500 ft., W. side of Panamint Mtns., Inyo Cnty., California, Amer. Mus. Novit. No. 1883, 1958, p. 2, figs., **Stebbins (1)**.

Ophisaurus, Saltwater association, species named, **Neill (2)**.—Of S. Florida, *tenuatus longicaudus*, *compressus*, *ventralis*, **Duellman & Schwartz**.—*O. apodus*, Of Transcaucasica, **Rotter (1)**.—*O. attenuatus*, Of Kansas, Lyon Cnty., **Marke, Breukelman & Andrews**.—On movement range, **Fitch (2)**.—and *centralis*, of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling (1)**.—*O. buttikoferi*, From Batang

Lemanak, tributary of Lupar R., Second Div., Sarawak, first notes on habitat, **Inger (2)**.—*O. koellikeri*, From Morocco, Ifrane region, **Bons**.

ANNIELLIDAE

Anniella pulchra pulchra, From S. Todos Id., Baja, California, **Zweifel (1)**.—*A. p. pulchra*, p. *nigra*, *geronimensis*, Saltwater association, **Neill (2)**.

BIPEDIDAE see under AMPHISBAENIDAE.

CHAMELEONIDAE

Brookesia sp., Spermatogenesis, figs., **Tuzet & Manier**.

Chamaeleo, Causes of death, **Benzien (2)**.—On feeding, photograph, **Cock**.—Key to the three-horned species, *deremensis*, *oweni*, *werneri*, *fulleborni*, *jacksoni jacksoni*, j. *merumontana*, subsp. nov. (p. 1), type loc: Laikinoi, nr. Arusha, Mt. Meru, Arusha Dist., N. Province, Tanganyika T., *johnstoni johnstoni*, j. *crenulata*, *Breviora*, No. 99, 1958, **Rand**.

Chamaeleo chamaeleon, On captive specimen, photograph, **Klemmer**.—In captivity, photograph, **Klynstra, F. B.**—From Cota Doñana, Spain, fig., **Mountfort**.

Chamaeleo dilepis, On colour changes, and observations on evolution, **Hoesch**.—On breeding, figs., **Wager**.—*C. d. quilensis*, From Nyamaziwa, 5,000 to 6,000 ft., Inyanga Dist., S. Rhodesia, **Fitzsimons (2)**.

Chamaeleo gracilis, On breeding behaviour, captive and wild, **Menzies**.

Chamaeleo jacksoni, Observations of use of horns in fighting over territory, **Bustard**.

Chamaeleo melleri, On bird eating, **Pitman**.

Chamaeleo senegalensis, From Liberia, **Taylor & Weyer**.

Chamaeleo unicornis, From Bamanya, Belgian Congo, **Laurent**.

Microsaura pumilis, *melanocephala*, general notes, breeding, figs., **Wager**.

CORDYLIDAE

Cordylus cataphractus, In captivity, **Landwehr**.—*C. cordylus rhodesianus*, From Nyamaziwa, 5,000 to 6,000 ft., Inyanga Dist., S. Rhodesia, **Fitz-**

simons (2).—*C. polyzonus*, On permeability of epiphysis to vital dyes, **Steyn** (1).—Pineal circulation, figs., **Steyn** (2).—*C. warreni mossambicus*, subsp. nov., type locality: Gorongosa Mtn., nr. Vila Paiva, Moçambique, Ann-Natal Mus. 14 2 1958, p. 351, **Fitzsimons** (1).

EUBLEPHARIDAE

Coleonyx, see under GECKONIDAE.

GECKONIDAE

Zoogeography of the Pacific Basin, **Brown, W. C.**—Of Australia, notes, photographs, some habit data, **Cogger**.—On adaptive convergence, **Mitchell**.—General note, **Wermuth** (8).

Aristelligella barbouri, Saltwater association, **Neill** (2).

Aristelliger praesignis, Natural history of visual pigments, **Crescitelli** (2).

Bavayia, On distribution in Pacific Ids., zoogeography, *cyclura*, *sauvagi*, **Brown, W. C.**

Chondrodactylus angulifer, Of Kalahari Gemsbok National Park, photograph, **Fitzsimons & Brain** (4).

Coleonyx elegans elegans, From Guatemala, Peten, Tikal-Uaxactun, **Stuart**.—*C. e. nemoralis*, Distribution in Colima and W. Mexico, **Duellman** (3).—*C. reticulatus*, sp. nov., type loc.: Black Gap, 90 mls. S.-S.E. of Marathon, 2,500 ft., Brewster Cnty., Texas; *elegans*, fig., Proc. biol. Soc. Wash., 71, 1958, p. 151, photograph, **Davis & Dixon**.—*C. variegatus*, Natural history of visual pigments, **Crescitelli** (2).—*C. v. variegatus*, From vicinity of Pinnacle larva cap, N.W. Sonora, Mexico, **Smith, P. W. & Hensley** (2).

Colopus wahlbergii, Of Kalahari Gemsbok National Park, **Fitzsimons & Brain** (4).

Cosymbotus platurus, Saltwater association, **Neill** (2).—Of Thailand, **Taylor & Elbel**.

Cyrtodactylus [*Gymnodactylus*] *intermedius*, Of Thailand, **Taylor & Elbel**.

Diplodactylus michaelsoni, strophurus (photograph), Of Australia, general, **Cogger**.—*D. spinigerus*, Photograph, **Warham** (1).—*D. strophurus spinigerus*, Of S.W. coast Australia, photograph, **Mertens**, (8)

Eurydactylus, On distribution in Pacific Ids., zoogeography, *symmetricus, vieillardi*, **Brown, W. C.**

Gehyra brevipalmata, oceanica, mutilata, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**—*G. mutilata*, Of Amami Group, Loo Choo Ids., photo., **Koba**.—Saltwater association, **Neill** (2).—From Jalisco, Mexico, **Smith, H. M. & Grant** (5).—and *variegatus*, Natural history of visual pigments, **Crescitelli** (2).—*G. oceanica*, In New Zealand, distribution, notes etc., **McCann**.—From Rennell Id., first record, **Volsee** (1).—*G. variegata*, of Australia, general, **Cogger**.

Gekko gekko, Natural history of visual pigments, **Crescitelli** (2).—Of Thailand, **Taylor & Elbel**.—*G. japonicus*, Of Amami Group, Loo Choo Ids., **Koba**.—Histology on sub-commisural organs, **Murakami, Ban & Aiura**.—*G. vittatus*, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Gonatodes fuscus, Of S. Florida, **Duellman & Schwartz**.—Saltwater association, **Neill** (2).

Gymnodactylus, Of Australia, general, **Cogger**.—*G. pelagicus*, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**—Saltwater association, **Neill** (2).—From Rennell Id., first record, **Volsee** (1).

Hemidactylus, Of the Maldives **Klausewitz**.

Hemidactylus brooki, On spermatogonial chromosomes, figs., **Bhatnagar**.—On two-tailed example, figs., **Krishna Pillai**.—From Malé, Maldives Ids., **Phillips**.

Hemidactylus flaviviridis, Structure and development of vertebral column, figs., **Ganguly & Mitra**.—Histochemical study of lipids in oocytes, **Guraya**.—In captivity, **Landwehr**.

Hemidactylus frenatus, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**—Natural history of visual pigments, **Crescitelli** (2).—Of Amami Group, Loo Choo Ids., **Koba**.—Saltwater association, **Neill** (2).—From Malé, Maldives Ids., **Phillips**.—From the Seychelles, **Ridley & Percy**.—Of Thailand, **Taylor & Elbel**.

Hemidactylus garnoti, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Hemidactylus mabouia, Of Dundo, photographs, including enlargement of skin, **Machado**.—Of Rhodesia, **Tasman**.

Hemidactylus turcicus, Of the Balearic Ids., fig., **Colom** (1).—Of the Balearic Ids., **Colom** (2).—Natural history of visual pigments, **Crescitelli**.—Populations from Laredo, Texas, **Dixon**.—Of Gomez Farias Region, Tamaulipas, **Martin, P. S.**—From Spain, Andalucia, **Mountfort**.—*H. t. turcicus*, Of S. Florida, **Duellman** & **Schwartz**.—Saltwater association, **Neill** (2).

Hemiphyllodactylus typus, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Heteronata vinoei, Of Australia, general, photograph, **Cogger**.

Heteropholis, Of New Zealand, **McCann**.

Holodactylus cornii, comparison with *africanus*, some natural history notes, photographs, **Cherchi** (4).

Homopholis wahlbergii, Of Rhodesia, photos., **Tasman**.

Hoplodactylus pacificus, *duvauceli*, *granulatus*, In New Zealand, distribution, **McCann**.

Lepidodactylus lugubris, On food and pests, **Klemm, M.**—Saltwater association, **Neill** (2).—*L. lugubris* (First record); *guppyi*, Of Rennell Id., **Volsøe** (1).—*L. lugubris*, *manni*, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Lygodactylus bernardi, sp. nov., Type loc.: Nyamaziwa, Inyanga Dist., S. Rhodesia, Occ. Pap. nat. Mus. S. Rhod. 33, 1958, p. 204, head fig., **Fitzsimons** (2).—*L. capensis*, Of Rhodesia, photos., **Tasman**.—*L. c. capensis*, From Nyamaziwa, 5,000–6,000 ft., Inyanga Dist., S. Rhodesia, **Fitzsimons** (2).

Naultinus elegans, In New Zealand, distribution, **McCann**.

Nephurus asper, Of Australia, general, photograph, **Cogger**.—Of S.W. coast, Australia, **Mertens** (8).—*N. laevissimus*, sp. nov., type from 2 mls. N.W. of Ayers Rock, N.T., C. Australia, **Senck. biol.** 39, 1–2, 1958, p. 51, figs., **Mertens** (2).

Oedura, Of Australia, general, **Cogger**.—*O. lesueuri*, *monilis*, Natural history of visual pigments, **Crescitelli** (2).—

O. marmorata, Of S.W. coast, Australia photograph, **Mertens** (8).—*O. monilis* = syn. of *marmorata*, Evidence for a blue sensitive component in the retina, **Crescitelli** (1).—*O. transvaalica*, Of Rhodesia, **Tasman**.

Pachydactylus, Of Rhodesia, *bibronii*, photos., *capensis*, photo., *punctatus*, **Tasman**.—*P. rogosus*, *capensis capensis*, *bibronii*, Of Kalahari Gemsbok National Park, **Fitzsimons** & **Brain** (4).

Palmatogeoche rangei, General natural history observations, photographs, **Brain**.

Perochirus articulatus, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Peropus mutilatus, Of Thailand, **Taylor** & **Elbel**.

Phyllodactylus europaeus, Of the Balearic Ids., **Colom** (2).—*P. lanei*, From Jalisco, Mexico, **Smith, H. M.** & **Grant** (5).—*P. marmoratus*, Of Australia, general, **Cogger**.—*P. tuberculosus*, First records from Magdalena and Santa Margarita Ids., Baja California, **Zweifel** (1).

Phyllurus milii, Natural history of visual pigments, **Crescitelli** (2).—*P. platurus*, *cornutus*, Of Australia, general, photographs, **Cogger**.

Platydictylus mauritanicus, Of the Balearic Ids., fig., **Colom** (1).

Pristurus, On temperature tolerance, **Cherchi** (7).

Ptenopus garrulus garrulus, Of Kalahari Gemsbok National Park, **Fitzsimons** & **Brain** (4).

Rhachodactylus, On distribution in Pacific Ids., zoogeography, *ariculatus*, *chahoua*, *ciliatus*, *leachianus*, *sarasinorum*, *trachyrhynchus*, **Brown, W. C.**

Sphaerodactylus, Of S. Florida, *argus*, *argus*, *cinereus*, *notatus*, **Duellman** & **Schwartz**.—*S. decoratus drapetiscus*, subsp. nov., type from: 2 mls. E. of Playa de Guanabo, Cueva de Rincon de Guanabo, Habana Prov., Cuba, **Proc. biol. Soc. Wash.** 71, 1958, p. 29, **Schwartz** (1).—*S. glaucus glaucus*, *lineolatus*, From Guatemala, Petan, Tikal Uaxactum, **Stuart**.—*S. notatus*, On sexual dichromatism, **Grant** (1).—and *cinereus*, *a. argus*, Saltwater association, **Neill** (2).—*S. parkeri*, Natural history of visual pigments, **Crescitelli** (2).—

S. spielmani, sp. nov., Type' loc., Guantanamo, Oriente Prov., Cuba, *Herpetologica* 14 (4), 1958, p. 225, figs., Grant (2).—*S. torres*, In Cuba, ecology, Cooper (1).

Tarentola americana, In Cuba, ecology, Cooper, (1).—*T. mauritanica*, Natural history of visual pigments, Crescitelli (2).—Of the Balearic Ids., Colom (2).—In captivity, Klynstra, M. J.—Landwehr.—In captivity, (photograph), Lehmann (2).—From Cota Donana, Spain, fig., Mountfort.—*T. m. mauritanica*, From Morocco, Ifrane region, Bons.—From Banyuls, Duguy & Philippe-Knoepfler.

Thecadactylus rapicaudus, From Guatemala, Peten, Tikal, Stuart.

HELODERMIDAE

Wermuth (3).

Heloderma, monograph, key to species, geographic range chart, habits, etc., *horridum*, (fig., skull figs.), *suspectum* (fig. pairing, fig.), Wermuth (3).—*H. horridum horridum*, Distribution in Colima and W. Mexico, Duellman (3).—From Jalisco, Mexico, Smith, H. M. & Grant (5).—*H. suspectum suspectum*, From vicinity of Pinacate larva cap., N.W. Sonora, Mexico Smith, P. W. & Hensley (2).

IGUANIDAE

Zoogeography of the Pacific Basin, Brown, W. C.

Amblyrhynchus cristatus, Habitat, notes, food, etc., Neill (2).—On salt glands, Schmidt-Nielsen & Fange.—On preferred body temperature and feeding, Wilhoft (2).

Anolis, Observations on intergradation, convergence and colour in many species of Mexico, Poglayen & Smith.

Anolis argenteolus, In Cuba, ecology, Cooper (1).

Anolis biporcatus, From Guatemala, Peten, Tikal, Stuart.

Anolis carolinensis, On distribution in Pacific Ids., zoogeography, Brown, W. C.—Of Arkansas, in geographic relations of Ozakian reptiles, Dowling (1).—On male sexual cycle, charts and fig., Fox (1).—Growth rates in captivity, Fox & Dessauer (2).—Response of male reproductive system to unnatural day-lengths, Fox & Dessauer (3).—

A sarcophid fly larva parasitic, Gunter.—Energy requirements of melanin granula aggregation and dispersion in the melanophores, figs., Horowitz.—In captivity, Landwehr.—In captivity, photograph, Rekam (1).—*A. c. carolinensis*, Of S. Florida, Duellman & Schwartz.—Saltwater association, Neill (2).

Anolis distichus distichus, Of S. Florida, Duellman & Schwartz.—*A. d. floridanus* is a synonym of *d. distichus*, Duellman & Schwartz.

Anolis eewi, sp. nov., type loc., Cumbre de Torono Tepui, Chimantá Tepui, Estado Bolivar, Venezuela, *Acta biol. Venezuela*, 2 25 1958, p. 311, Roze (3).

Anolis equestris thomasi, subsp. nov., Holotype: 2 km. S.E. Banao, Camaguey Prov., paratypes:—several localities in Camaguey Prov., Cuba, *Herpetologica* 14 (1) 1958, p. 3, distribution map, Schwartz (2).

Anolis extremus, In captivity, photograph, Rekam (1).

Anolis fuscoauratus kugleri, Of Venezuela, Roze (3).

Anolis humilis uniformis, From Guatemala, Peten, Tikal, Uaxactún, Stuart.

Anolis lemurinus bourgeaei, From Guatemala, Peten, Tikal, Uaxactún, Stuart.

Anolis limifrons rodriguezi, From Tikal, Peten, Guatemala, Stuart.

Anolis mestrei ahli, On tail prehension and related behaviour, figs., Hardy (3).

Anolis nebuloides, First record for Jalisco, Mexico, Smith, H. M. & Grant (5).

Anolis nebulosus, Distribution in Colima and W. Mexico, Duellman (3).—From Jalisco, Mexico, Smith, H. M. & Grant (5).

Anolis nitens, Of Venezuela, Bolivar State, Roze (2).

Anolis pentapryon beckeri, From Tikal, Peten, Guatemala; now revised from synonymy of *pentapryon*, Stuart.

Anolis roquet, On colour changing, figs., May & Thillard.

Anolis sagrei stejnegeri, Of S. Florida, **Duellman & Schwartz**.—On saltwater association, **Neill (2)**.

Anolis schmidtii, Third specimen recorded, from Pueblo Juarez, Colima, **Duellman (3)**.

Anolis sericeus, Biogeography of Gomez Farias Region, Tamaulipas, **Martin, P. S.**

Anolis tropidonotus, From Guatemala, Peten, Tikal, Uaxactún, **Stuart**.

Anolis ustus, From Guatemala, Peten, Tikal, Uaxactún, **Stuart**.

Basiliscus vittatus, Distribution in Colima and W. Mexico, **Duellman (3)**.—*B. vittatus, basiliscus*, Saltwater association, **Neill (2)**.

Brachylophus fasciatus, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Callisaurus draconoides, Saltwater association, **Neill (2)**.—*C. d. carmenensis*, From Santa Margarita Id., Baja California, **Zweifel (1)**.—*C. d. ventralis*, From vicinity of Pinacate larva cap., N.W. Sonora, Mexico, **Smith, P. W. & Hensley (2)**.—*C. ventralis*, On food as pests, **Klemm, M.**

Conolophus pallidus, On preferred body temperature and feeding, **Wilhoft (2)**.—*C. subcristatus*, On food and pests, **Klemm, M.**

Corythophanes, From Guatemala, Peten, *cristatus*, Tikal, Uaxactún, *hernandezii*, Tikal, **Stuart**.

Crotaphytus collaris, Of Kansas, Lyon Cnty., **Clarke, Breukelman & Andrews**.—Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling (1)**.—On movement range, **Fitch (2)**.—On food and pests, **Klemm, M.**—In captivity, **Landwehr**.—In captivity, **Letitre**.—*C. c. collaris*, Notes on daily activities in Oklahoma, **McCoy**.—*C. c. baileyi*, From vicinity of Pinacate larva cap., N.W. Sonora, Mexico, **Smith, P. W. & Hensley (2)**.—*C. c. baileyi, c. auriceps*, Of Glen Canyon, Utah, **Tanner (4)**.—*C. w. wislizenii*, Of Glen Canyon, Utah, **Tanner (4)**.

Ctenoblepharis jamesi, Re-described, is viviparous and represents a transition between *Liolaemus* and *Ctenoblepharis*, figs., **Donoso-Barros (2)**.

Ctenosaura acanthura, On food and pests, **Klemm, M.**—Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*C. acanthura, hemilopha, similis*, Saltwater associations, **Neill (2)**.—*C. pectinata*, Distribution in Colima and W. Mexico, **Duellman (3)**.

Cyclura lophoma, On food and pests, **Klemm, M.**—*C. macleayi macleayi*, In Cuba, ecology, **Cooper (1)**.

Dipsosaurus dorsalis, On derma temperature regulation, **Cowles**.—Effects of temperature, metabolic and cardiac responses, **Dawson & Bartholomew**.—In captivity, **Landwehr**.—Saltwater association, **Neill (2)**.—*D. dorsalis dorsalis*, From vicinity of Pinacate larva cap., N.W. Sonora, Mexico, **Smith, P. W. & Hensley (2)**.

Gambelia wislizeni wislizeni, From vicinity of Pinacate larva cap., N.W. Sonora, Mexico, **Smith, P. W. & Hensley (2)**.—From Chihuahua, Mexico, **Williams, K. L. & Smith, W. M.**

Holbrookia bunkeri, Range and status; is a race of *maculata*, figs., **Williams, K. L. & Smith, H. M.**—*H. maculata*, Of Kansas, Lyon Cnty., **Clarke, Breukelman & Andrews**.—Notes on daily activity in Oklahoma, **McCoy**.—*H. texana*, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*H. t. scitula*, From Arizona, Yavapai Co., **Williams & Chrapliwy**.

Hoplurus quadrimaculatus, Saltwater association, **Neill (2)**.

Iguana iguana, Saltwater associations, **Neill (2)**.—*I. i. iguana*, In captivity, especially young, photographs, **Sachs (2)**.—*I. tuberculata*, On food and pests, **Klemm, M.**

Laemantus deborrei, From Guatemala, Peten, Tikal, Uaxactún, **Stuart**.—*L. serratus*, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**

Leiocephalus carinatus, Saltwater association, **Neill (2)**.—*L. carinatus virescens*, Of S. Florida, **Duellman & Schwartz**.—*L. macropus*, A geographic variant of unpaired median postnasals in the eastern part of range to complete absence westward, figs., **Hardy (2)**.—*L. macropus; carinatus*, In Cuba, ecology, **Cooper (1)**.—*L. macropus immaculatus*, subsp. nov., type from:

Ociyal, Oriente Province, Cuba, J. Wash. Acad. Sci. 48 9 1958, p. 294, 5 figs., **Hardy** (1).

Metopocerus cornutus, On food and pests, **Klemm**, M.

Norops auratus, Of Venezuela, Bolivar State, **Roze** (2).—*N. ophiolepis*, Saltwater association, **Neill** (2).

Petrosaurus—see also under *Uta*.—*P. mearnsi*, Saltwater association, **Neill** (2).

Phrynosaura reiche, On second specimen known, a ♀, and opinion that species is becoming extinct, figs., **Donoso-Barros** (1).

Phrynosoma sp., Saltwater association in Utah, **Neill** (2).

Phrynosoma asio, Distribution in Colima and W. Mexico, **Duellman** (3).

Phrynosoma calidiarum, From Arizona, **Williams & Chrapliwy**.

Phrynosoma cornutum, Ultramicroscopic structure of renal glomerulus, **Anderson & Beams**.—Of Kansas, **Lyon Cnty.**, **Clarke, Breukelman & Andrews**.—On geographic relations of Ozarkian reptiles, **Dowling** (1).—In captivity, **Lefitre**.—Notes on daily activities in Oklahoma, **McCoy**.—Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—From Arizona, **Williams & Chrapliwy**.

[*Phrynosoma douglassi*], Records in Saskatchewan, **Nero** (2).—*P. douglassi hernandesi*, Of Glen Canyon, Utah, **Tanner** (4).

Phrynosoma modestum, On colour variation, figs., **Bundy & Neess**.—From Arizona, range extended, **Tanner** (5).

Phrynosoma orbiculare dugesi, Apparently incorrectly reported for Colima, **Duellman** (3).

Phrynosoma platyrhinos, On nocturnal tendency, **Harris**.—From Arizona, **Williams & Chrapliwy**.—*P. p. platyrhinos*, Northern-most record in Baker Cnty., Oregon, **Ferguson, Payne & Storm**.—*P. p. calidiarum*, On cryptic colouration in laval-dwelling specimens in California, **Lawrence & Wilhoft**. From vicinity of Pinacate larva cap, N.W. Sonora, Mexico, **Smith, P. W. & Hensley** (2).—Of Glen Canyon, Utah, **Tanner** (4).

Phrynosoma solare, From Arizona, **Williams & Chrapliwy**.

Sauromalus obesus, On dermal temperature regulation, **Cowles**.—*S. o. obesus*, Of Glen Canyon, Utah, **Tanner** (4).—*S. obesus tumidus × townsendi*, Intergrades from vicinity of Pinacate larva cap, N.W. Sonora, Mexico, **Smith, P. W. & Hensley** (2).—*S. shawi*, sp. nov., Type loc.: San Marcos Island, Mexico, **Copeia**, 1958, No. 4, p. 259, **Cliff**.

Sceloporus, Following species apparently incorrectly recorded from Colima, *bulleri*, *dugesi dugesi*, *formosus*, *grammicus microlepidotus*, *torquatus*, **Duellman** (3).

Sceloporus olivaceus, *grammicus*, *serri-fer*, *cyanogenys*, *torquatus*, *jarrovi*, *variabilis*, *parvus*, *scalaris*, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**

Sceloporus aeneus subniger, subsp. nov., Holotype from: 63 km. N. Toluca, Mexico, Paratypes from various localities, *Herpetologica*, 14 (1), 1958, p. 13, **Poglayen & Smith**.

Sceloporus graciosus graciosus, From Baker Cnty., Oregon, **Ferguson, Payne & Storm**.—Of Glen Canyon, Utah, **Tanner** (4).

Sceloporus horridus albiventris, From Jalisco, Mexico, **Smith, H. M. & Grant** (5).—*S. h. oligoporus*, Distribution in Colima and W. Mexico, **Duellman** (3).

Sceloporus lundelli lundelli, From Guatemala, Peten, Uaxactún, **Stuart**.

Sceloporus magister, In captivity, photograph, **Landwehr**.—*S. m. magister*, From vicinity of Pinacate larva cap, N.W. Sonora, Mexico, **Smith, P. W. & Hensley** (2).—*S. m. cephaloflavus*, Of Glen Canyon, Utah, **Tanner** (4).—*S. m. monserratensis*, From Magdalena Id., *m. rufidorsum*, from Cedro Id., Baja California, **Zweifel** (1).

Sceloporus melanorhinus calligaster, Distribution in Colima and W. Mexico, **Duellman** (3).

Sceloporus occidentalis, From Pine Mtns., California, **Pimental**.—On "parietal eye," figs., **Stebbins & Eakin**.—Temperature effect on thyroid histology and survival, **Wilhoft** (1).—On preferred body temperature, **Wilhoft** (2).

Sceloporus orcutti, Saltwater association, Neill (2).

Sceloporus poinsetti macrolepis, subsp. nov. Holotype from: El Salto, Durango, Mexico, paratypes various localities; [p. 268]; *poinsetti polylepis* subsp. nov., Holotype from: 18 mls. N. Escalon, Chihuahua, Mexico, paratypes from Durango localities, [p. 269]: *Herpetologica* 13 (4), 1958, Smith, H. M. & Chrapliwy (4).

Sceloporus pyrocephalus, Distribution in Colima and W. Mexico, Duellman (3).

Sceloporus siniferus, Of Chiapas, Mexico, confirmed, Poglayen & Smith.

Sceloporus undulatus, On geographic relations of Ozarkian reptiles, Dowling (1).—On 'parietal eye,' figs., Stebbins & Eakin.—*S. u. consobrinus*, Notes on daily activity in Oklahoma, McCoy.—From Chihuahua, Mexico, Williams, K. L. & Smith, H. M.—*S. u. elongatus*, Of Glen Canyon, Utah, Tanner (4).

Sceloporus utiformis, Distribution in Colima and W. Mexico, Duellman (3).

Sceloporus variabilis variabilis, From San Luis Potosi, Mexico, Axtell.

Sceloporus woodi, Of S. Florida, Duellman & Schwartz.

Streptosaurus mearnsi, In captivity, photograph, Landwehr.

Tropidurus, Saltwater association, Neill (2).—Of Venezuela, Bolivar State; *torquatus hispidus*; *bogerti*, sp. nov., type loc.: Ayantepui, Bolivar State, [p. 247, figs.], *Acta biol. venezuel.* 2, 22, 1958, Roze (2).

Uma, On the evolution and systematics, key to: *exsul*, *scoparia* (head figd.), *notata notata* (fig.), *n. inornata*, *n. rufopunctata*, Norris.—*U. inornata*, On 'parietal eye,' figs., Stebbins & Eakin.—*U. notata cowlesii*, From vicinity of Pinacote larva cap, N.W. Sonora, Mexico, Smith, P. W. & Hensley (2).

Uranoscodon superciliosum, In terrarium, Grijs.—In captivity, photograph, Rekum (2).

Urosaurus, Systematics, species included, *auriculatus*, *bicarinatus*, *clari-onensis*, *gadovi*, *graciosus*, *irregularis*, *microscutatus*, *nigrocaudus*, *ornatus*, *unicus*, Savage (1).—*U. auriculatus*, *clari-onensis*, Saltwater association, Neill

(2).—*U. bicarinatus tuberculatus*, Distribution in Colima and W. Mexico, Duellman (3).—From Jalisco, Mexico, Smith, H. M. & Grant (5).—*U. gadovi*, On type locality, probably Cofradia, Michoacan and not Cofradia Village, Jalisco, note on distribution, Duellman (2).—*U. nigrocaudus*, From Baja California, Magdalena Id., and Santa Margarita Id. (first record), Zweifel (1).—*U. ornatus symmetricus* \times *linearis*, From vicinity of Pinacate larva cap, N.W. Sonora, Mexico, Smith, P. W. & Hensley (2).—*M. ornata wrighti*, Of Glen Canyon, Utah, Tanner (4).

Uta, Systematics; subgenus, *Petrosaurus*, species included, *mearnsi*, *slevini*, *thalassina*; subgenus, *Uta*, species included, *concinna*, *martinensis*, *nolas-censis*, *palmeri*, *squamata*, *stansburiana*, *stellata*, Savage (1).—*U. stansburiana*, Saltwater association, Neill (2).—On 'parietal eye,' figs., Stebbins & Eakin.—*U. s. stansburiana*, Of Glen Canyon, Utah, Tanner (4).—*U. s. elegans*, From S. Todos Santos Id., Cedros Id., Magdalena Id., Santa Margarita Id., *s. martinensis*, from San Martin Id.; *s. stellata*, from W. San Benito Id., Baja California, Zweifel (1).—*U. s. stejnegeri*, From vicinity of Pinacate larva cap, N.W. Sonora, Mexico, Smith, P. W. & Hensley (2).—From Chihuahua dunes, Mexico, Williams, K. L. & Smith, H. M.

LACERTIDAE

Acanthodactylus c. cantor, Saltwater association, Neill (2).—*A. erythrurus*, From Cota Doñana, Spain, fig., Mountfort.—*A. e. erythrurus*, From Morocco, Ifrane region, Bons.—*A. vulgaris*, On saltwater association, Neill (2).

Algiroides africanus, From Butembo region, Belgian Congo, Laurent.—*A. marchi*, sp. nov., types from Piedre de Aguamula, Sierra de Cazoria (Jaén), Spain, Arch. Inst. acim. Almeida 7 1958, p. 127, 3 photographs and head figs., Valverde. *A. nigropunctatus*. CORRECTION:—Recorded volume 94 (1957) erroneously from Czechoslovakia, should read as, Slovenia, Yugoslavia, Brelih, S.

Aporosaura anchietae, Observation on evolution, Hoesch.

Bedriagaia tropidophilis, From San-kuru, Belgian Congo, Laurent.

Centromastix echinatus—see under *Lacerta*.

Eremias, On temperature tolerance, **Cherchi (7)**.—(†)*E. arguta*, On origin in Roumania, **Stugren**.—*E. brevirostris*, Added to fauna of Sinai, from Tiran Id., off S. tip of peninsula and Ras Muhammad, opposite Tiran, **Hoofien (1)**.—*E. lineo-ocellata lineo-ocellata*, Of Kalahari Gemsbok National Park, **Fitzsimons & Brain (4)**.—*E. lugubris, namaquensis*, Of Kalahari Gemsbok National Park, **Fitzsimons & Brain (4)**.—*E. undata*, Observations on evolution, **Hoesch**.

Lacerta. CORRECTION:—**Brelih (1954)** the following species erroneously recorded in volume 94 of the 'Record' as from Czechoslovakia, should read as Slovenia, Yugoslavia, *L. melisellenis fiumana*, *muralis muralis*, *m. maculiventris*, *sicula*, *campestris*, *vivipara*, *agilis*, *viridis*.

Lacerta, Of the Balearic Ids., **Colom (1)**.—On food and pests, species mentioned: *ocellata*, *viridis*, *dugesii*, *galloti*, *simonyi*, *atlantica*, *lilfordi*, *pityusensis*, *serpa*, *muralis*, **Klemm, M.**

Lacerta agilis, Not found on St. Peter's Hill (St. Petersburg), **Maastricht, Netherland, Brongersma (7)**.—Effect of electrical stimulus, **Crepax & Parmeggiani (1)**.—Of Bamberg, Bavaria, **Heilingbrunner**.—On geographic spread, **Mertens (7)**.—Fluorescent mast-cell reaction in precancerous skin, **Stolk (1)**.—Tumours of the heart, figs., **Stolk (2)**.—General work on German fauna, col. plate, etc., **Wermuth (1)**.—*L. a. agilis*, Mainly on feeding, **Broadley (5)**.—Of Germany, general work, photographs, **Frommhold**.—Observed in Tisza, Hungary, **Marián**.—Of Hungary, Pilis, some nature notes, **Szabó**.—and *a. paradoxa*, Of Transcaucasia, **Rotter (1)**.—*L. a. brevicaudata*, subsp. nov., Type locality: Stepanawan, Armenia, paratypes from various Armenian localities, **Zool. Jb. (Syst.) 86 (1/2), 1958, p. 127, 7 figs., Peters, G.**

Lacerta bocagei liolepis, From Cota Doñana, Spain, **Mountfort**.

Centromastix [Lacerta] echinatus, From Ituri, Belgian Congo, **Laurent**.—*L. e. echinata*, From Liberia, **Taylor & Weyer**.

Lacerta horvathi, Of Yugoslavia, **Radovanovic**.

Lacerta lepida, In captivity, **Landwehr**.—Effect of myxamatosis in Rhone delta, **Menne**.—From Cota Doñana, Spain, fig., **Mountfort**.—General note, in captivity, **Wermuth (5)**.—*L. l. lepida*, From Banyuls, **Duguy & Philippe-Knoepffler**.—*L. l. pater*, From Morocco, Ifrane region, **Bons**.

Lacerta lilfordi, subsp. Of the Balearic Ids., *balearica*, Isla de Rey (I. Hospital) y otras cercanas (Puerto de Mahón), *rodriguezi*, Isla de las Ratas (Pto. de Mahón), *brauni*, Isla Colom, *sargantanae*, Isla Sargantana, Isla Robells, en la bahia de Fornells, *fennii*, Isla Nitge (I. Porros), cerca del cabo de Caballeria, *lilfordi*, Isla del Aire, (localidad tipica de la primera forma recogida por Lord Lilford), figures, **Colom (1)**.—*L. l. toronis*, Is a valid race, figures, **Mertens (1)**.

Lacerta media, Of Transcaucasia, **Rotter (1)**.

Lacerta mosorensis, Of Yugoslavia, **Radovanovic**.

Lacerta muralis, On specimens from Maastricht, Holland, most northerly point of distribution, photographs, **Bree**.—Record of St. Peter's Hill (St. Petersburg) specimen, **Maastricht, Netherland, not confirmed, Brongersma (7)**.—On eggs and young in captivity, **Cooper, J. S.**—On doubtful presence in Poland, **Fudakowski**.—Saltwater association, **Neill (2)**.—(†)On origin in Roumania, **Stugren**.—Investigations of development of anterior pituitary, figs., **Szentagothai & Szekely**.—General work on German fauna, col. plate, etc., **Wermuth (1)**.—*L. m. muralis*, From Banyuls, **Duguy & Philippe-Knoepffler**.—Of Germany, general work photograph, **Frommhold**.—Of Hungary, Pilis, some nature notes, **Szabó**.—*L. m. beccarii*, subsp. nov., Type loc.: Isola Isolotto di Port Ercole, Monte Argentario, Tuscany, (p. 312, figs.); *m. colosii*, from Elba, **Ann. Mus. Stor. nat. Genova 70, 1958, Lanza**.—*L. m. bocagei*, From Morocco, Ifrane region, **Bons**.—*L. m. fiumensis*, On normal and tumorous cells, **Stolk (4)**.—*L. m. nigriventris*, In captivity, **Brehm**.

Lacerta oxycephala, Of Yugoslavia, **Radovanovic**.

Lacerta perspicillata forma *guichenoti*, *p.* forma *pellegrini*, From Morocco, Ifrane region, **Bons**.

Lacerta pityusensis, subsp. of the Balearic Ids.; *ratae*, Isla de las Ratas, *grossae*, Isla de Sta. Eulalia, *affinis*, Isla Malvin, *schreitmulleri*, Islas Malvin & Malvin pegueño, *redonae*, Isla Redona, *canensis*, Isla Caná, *tagomaguensis*, Isla de Tagomago, *gastabiensis*, Islas Ahorcador, Negreta, Negra, Empalmador, Torretas, Gastabi, Llarga, Espardella, *grueni*, Isla Trocador, *algae*, Isla Alga, N. of Formentera, *formenterae*, Isla Formentera, *calae-saladae*, Isla Cala Salada, *miquelensis*, Isla Bosque de S. Miguel, *caldesiana*, Isla Caldes, *Carl-Kochi*, Isla Conejera y Bosque, *kameriana*, Isla Espartó, *frailensis*, Isla de los Frailes, *zenonis*, Escull de l'Espartó, *muradae*, Isla Murado, *Hedwig-Kamerae*, Isla Margarita, *gorrae*, Isla Bleda Gorra (I. Porros), isla Bleda Na Bosque (Mayor), Escull Vermell, *maluquerorum*, Isla Bleda Plana, *vedrae*, Isla Vedra e islote Vedranell; figs., **Colom**.

Lacerta saxicola defilippii (col. figs.), *s. armeniaca* (fig.), *s. dahli*, subsp. nov. (p. 32, figs., col. fig.), *s. rostom-bekovi*, subsp. nov. (p. 35, fig., col. pl.), *s. portschinskii* (fig.), *s. terentjevi*, subsp. nov. (p. 42, figs., col. pl.), *s. aremenica* × *s. defilippii*—key to subspecies, Armenia Acad. Sci. 111, 1957, **Darewskij** (1).—On natural parthenogenesis, **Darewskij**.

Lacerta strigata, Of Transcaucasica, **Rotter** (1).

Lacerta taurica, In captivity, photograph, **Houba** (1).—(†) On origin in Roumania, **Stugren**.—*L. t. tauricus*, Of Transcaucasica, **Rotter** (1).

(†)*Lacerta trilineata*, On origin in Roumania, **Stugren**.

[*Lacerta viridis*], On habits, figs., **Weber**.—*L. viridis*, Response to electrical stimulus, **Crepax & Parmeggiana** (2).—Lung morphology, **Dokov** (1), (3).—On presence in Poland, **Fudakowski**.—Of E. France, general, **Germaine**.—In captivity, **Landwehr**.—On catalasic activity of blood, **Liotti**.—On electrical impulses, **Parmeggiani**.—Tumours in the skin, figs., **Stolk** (3).—On normal and tumorous cells, fig., **Stolk** (4).—Tumours, multiple osteomas,

figs., **Stolk** (5).—(†) On origin in Roumania, **Stugren**.—Of investigation development of anterior pituitary, figs., **Szentagothai & Szekely**.—General work on German fauna, col. plate, etc., **Wermuth** (1).—*L. v. viridis*, Of Germany, general work photograph, **Frommhold**.—General note, photograph, **Keller**.—Observed at Tisza, Hungary, **Marián**.—Of Transcaucasica, **Rotter** (1).—Of Hungary, **Pilis**, photogr., some nature notes, **Szabó**.—*L. viridis* subsp., From Banyuls, **Duguy & Philippe-Knoepfler**.

Lacerta vivipara, Mainly on feeding, **Broadley** (5).—Not found on St. Peter's Hill (St. Petersburg) **Maastriche**, Netherlands, **Brongersma** (7).—From Tarradalens region, Sack Mtns., Swedish Lapland, **Curry-Lindhal** (1).—Lung morphology, **Dokov** (1).—Morphology of lungs, **Dokov** (3).—Of Germany, general work, photographs, **Frommhold**.—Of E. France, general, **Germaine**.—Of Bamberg, Bavaria, **Heilingbrunner**.—On release on Lundy Is., N. Devon, (**Hewitt**).—Physiology, effect of weather, **Knötig**.—From Tisza, Hungary, **Marián**.—Saltwater association, **Neill** (2).—Experiments on tail regeneration and nervous system, fig., **Nikitenko** (2).—Of Dernford Fen, Cambridgeshire, **Sharp**.—(†) On origin in Roumania, **Stugren**.—General work on German fauna, col. plate, etc., **Wermuth** (1).

Latastia, On temperature tolerance, **Cherchi** (7).

Nucras tessellata, Of and *intertexta* *intertexta*, probably in Kalahari Gemsbok National Park, **Fitzsimons & Brain** (4).

Podarcis, Of the Balearic Ids., **Colom** (2).

Psammodromus algirus, From Banyuls, **Duguy & Philippe-Knoepfler**.—On saltwater association, **Neill** (2).—*P. a. algirus*, From Morocco, Ifrane region, **Bons**.—*P. hispanicus*, From Spain, Andalucia, *algirus*, fig., From Cota Doñana, Spain, **Mountfort**.

Scaptira knoxii, Reaction to *Causus*, **Reece**.—*S. suborbitalis*, Of Kalahari Gemsbok National Park, **Fitzsimons & Brain** (4).

Takydromus kwangakuensis **Doi**, On status, is a synonym of *T. amurensis*, **Walley** (1).—*T. smaragdinus*, Of Amami

Group, Loo Choo Ids., **Koba**.—Saltwater association, **Neill** (2).—*T. tachydromoides*, From Japan, **Alexander & Diener**.—Of Kyoto, Japan, **Fukada** (2).—*T. t. oldi*, subsp. nov., Type loc.: Tajon, Korea; *Herpetologica* **14** (4), 1958, p. 203, head fig., **Walley** (2).

PYGOPODIDAE

On adaptive convergence, **Mitchell**.

Delma fraseri, Of S.W. coast Australia, **Mertens** (8).

SCINIDAE

Zoogeography of the Pacific Basin, **Brown, W. C.**

Ablepharus, Of King's Park, **Glauert**.—Of S.W. coast, Australia, coral reefs, **Mertens** (8).—*A. boutoni*, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**—*A. boutonii litoralis*, subsp. nov., type locality, Flying Fish point, 6 mls. E. of Innisfail, Queensland, races mentioned are, *plagiocephalus*, *novocaledonicus*, *burdeni*, *virgatus* (fig.), *Senck. biol.* **39** 1-2, 1958, p. 54, figs., **Mertens** (2).—(†) *A. kitaibelii*, On origin in Roumania, **Stugren**.—*A. kitaibelii kitaibelii*, On occurrence on Great Hungarian plain, nr. Kecskemet, **Szunyoghy**.—*A. pannonicus pannonicus*, Of Hungary, **Pilis**, some nature notes, **Szabó**.—*A. whalbergi*, Saltwater association, **Neill** (2).

Aulacoplax leptosoma, gen. & sp. nov., Holotype from: Arakitaach Creek, 2 miles S. of Ngarekeal Village, Babelthuap Id., Palau Ids., Paratypes from: Babelthuap Id., various localities, Koror Id., and Toiracholodochoel Id., Occ. Pap. nat. Hist. Mus. Stanf. Univ. No. 6, 1958, p. 1 and 2, figs., **Brown & Fehlmann**.

Barkudia insularis, Bionomics and some anatomical peculiarities, figs., **Ganapati & Rajyalakshmi**.

Chalrides bedriagai, fig., From Cota Doñana, Spain; *striatus*, from Spain, **Mountfort**.—*C. ocellatus*, Seasonal variation of male urogenital organs, figs., **Badir**.—and *tridactylus*, Saltwater association, **Neill** (2).—*C. striatus*, From Banyuls, **Duguy & Philippe-Knoepffler**.—*C. tridactylus lineatus*, *ocellatus* (*montanus*), *polylepis*, From Morocco, Ifrane region, **Bons**.—*C. tridactylus, mionecton* (photo), *lineatus*, *ocellatus* *polylepis*, Of Morocco, on habits etc., **Varaldi**.

Cryptoblepharus boutoni, Saltwater association, **Neill** (2).—*C. b. poecilepleurus*, Of Rennell Id., **Volsøe** (1).

Dasia olivacea, Of Thailand, **Taylor & Elbel**.—*D. smaragdina*, Of Dutch New Guinea, general notes, **Brongersma** (6).—On distribution in Pacific Ids., zoogeography, **Brown, W. C.**—Saltwater association, **Neill** (2).—*D. s. perviridis*, Saltwater association, **Neill** (2).—*D. s. philippinica*, On food habits, **Alcala**.

Egernia cunninghami, On food and pests, **Klemm, M.**—*E. dorsalis*, Fig., *whitii whitii*, Observations in captivity, **Adler** (3).—*E. kingii*, Of King's Park, **Glauert**.—Photograph, **Warham** (1).

Emoia, spp. n., On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Emoia adpersa, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Emoia arnoensis, On distribution in Pacific basin islands, zoogeography, **Brown, W. C.**

Emoia atrocistata, Of Dutch New Guinea, general notes, **Brongersma** (6).—On distribution in Pacific Ids., zoogeography, **Brown, W. C.**—Saltwater association, **Neill** (2).—Solomon Id. records, **Bellona Id.**, **Ysabel Id.**, **Volsøe** (1).

Emoia boettgeri, On distribution in Pacific islands, zoogeography, **Brown, W. C.**

Emoia caeruleocauda, Of Dutch New Guinea, general notes, **Brongersma** (6).—*E. c. reimschüsseli*, On saltwater association, **Neill** (2).

Emoia callisticta, On distribution in Pacific islands, zoogeography, **Brown, W. C.**

Emoia cyanogaster, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Emoia cyanura, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**—Saltwater association, **Neill** (2).—From Rennell Id., **Volsøe** (1).

Emoia mivarti, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Emoia murphyi, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Emoia nigra, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**—From Rennell Id., **Volsøe (1).**

Emoia nigromarginata, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Emoia samoensis, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Emoia speiseri, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Emoia werneri, On distribution in Pacific basin islands, zoogeography, **Brown, W. C.**

Eumeces algeriensis meridionalis, Of Morocco, photograph, habits, etc., **Varaldi.**

Eumeces anthracinus, Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling (1).**—On tecnophagy, own egg-eating, **Hamilton.**

Eumeces barbouri, Of Amami Group, Loo Choo Ids., **Koba.**

Eumeces brevirostris bilineatus, subsp. nov., type from 10 mls. S.W. of El Salto, Durango, Mexico, Gr. Basin Nat. 18 2 1958, p. 59, head fig., **Tanner (3).**

Eumeces colimensis parvulus, Distribution in Colima, **Duellman (3).**

Eumeces dicei, From Ciuda Victoria, Tamaulipas, Mexico, **Axtell.**—Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**

Eumeces egregius, Notes on life history in Georgia, **Hamilton & Pollack.**—*E. e. egregius*, Saltwater association, **Neill (2).**—*e. egregius, e. onocrepis*, Of S. Florida, **Duellman & Schwartz.**

Eumeces fasciatus, Zoogeography of E. Canada, **Bleakney (1).**—Of Kansas, Lyon Co., **Clarke, Breukelman & Andrews.**—A new county record, Licking Cnty., Ohio, **Dennis (2).**—Probably in Lawrence Cnty., Ohio, **Dennis (3).**—Of Arkansas in geographic relations of Ozarkian reptiles, **Dowling (1).**—On movement range, **Fitch (2).**—Ohio records, Lorain & Lake Cnty., **McMahon.**

Eumeces inexpectatus, Of S. Florida, **Duellman & Schwartz.**—On tecnophagy,

own egg-eating, **Hamilton.**—Saltwater association, **Neill (2).**—On range limit, Maryland, **Reed (1).**

Eumeces lagunensis, Ecology, description, **Tanner (1).**

Eumeces laticeps, On status in Ohio, **Adler (2).**—Of S. Florida, **Duellman & Schwartz.**—On range limit, Maryland, **Reed (1).**

Eumeces latiscutatus latiscutatus, From Japan, **Alexander & Diener.**—Of Kyoto, Japan, **Fukada (2).**

Eumeces lynce durangoensis, subsp. nov., type from, 30 mls. E. of El Salto, Durango, Mexico, Gr. Basin Nat. 18 2 1958, p. 57, head figs., **Tanner (3).**—*E. l. furcirostris*, Apparently incorrectly reported from Colima, **Duellman (3).**

Eumeces multilineatus, sp. nov., type from 3 mls. N. of Colonia Chuhuichupa, Chihuahua, Mexico, Gr. Basin, Nat. 17 3-4, 1958, p. 111, fig., **Tanner (2).**

Eumeces multivirgatus gaigeae, Range extensions in Colorado and Utah, **Maslin.**

Eumeces obsoletus, Of Kansas, Lyon Co., **Clarke, Breukelman & Andrews.**—On movement range, **Fitch (2).**—From Oklahoma, **McCoy.**—Study on blood glucose and pancreatic islets, figs., **Miller & Wurster.**

Eumeces oshimensis, Of Amami Group, Loo Choo Ids., **Koba.**

Eumeces quadrilineatus, From Thailand, **Taylor & Elbel.**

Eumeces schwartzei, From Guatemala, Peten, Tikal; Uaxactun, **Stuart.**

Eumeces septentrionalis, Of Kansas, Lyon Co., **Clarke, Breukelman & Andrews.**—On movement range, **Fitch (2).**

Eumeces skiltonianus, On Pine Mtns., California, **Pimental.**—From S. Todos Santos Id., Baja California, **Zweifel (1).**—*E. s. skiltonianus*, From Baker Cnty., Oregon, **Ferguson, Payne & Storm.**—*E. skiltonianus*, Taxonomy and ecological study: key, *s. utahensis*, subsp. nov., type loc. S.E. Cedar Valley, W. of Chimney Rock, Utah Cnty., Utah, [p. 67, figs.]; *s. interparietalis*, subsp. nov., type loc. S. Coronado Id., Baja California, Mexico, [p. 73], Gr. Basin Nat. 17 3-4, 1958, **Tanner (1).**

Eumeces tetragrammus, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—First record from Coahuila, Mexico, **Zweifel (2)**.

Feylinia, if any, see under FEYLINIDAE.

Leiopisoma see also under *Lygosoma*.

Leiopisoma eunice, (photograph)—*L. rupicola*, Of Thailand, (photograph).—*L. siamensis* sp. nov. type loc. Phu Kho (mt.) 522 m., Kan Luang (village), Na Kae (dist.), Nakhon Phanom (prov.), Thailand (104° 22' × 16° 49'), Univ. Kansas sci. Bull. **38** 2 1958, p. 1123, photograph, **Taylor & Elbel**.—*L. fuscum, noctua*, Saltwater association, **Neill (2)**.—*L. silvicolum caudaequinae*, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*L. zelandica*, In New Zealand, distribution, **McCann**.

Lygosoma (Leiopisoma) austrocalidonicum, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Lygosoma (Sphenomorphus) deplauchi, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Lygosoma (Leiopisoma) euryotis, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Lygosoma (Leiopisoma) gracile, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Lygosoma laterale, Of Kansas, Lyon Cnty., **Clarke, Breukelman & Andrews**.—A single record from Delaware, **Conant (2)**.—Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling (1)**.—Of S. Florida, **Duellman & Schwartz**.—On movement range, **Fitch (2)**.—Saltwater association, **Neill (2)**.—On range limit, Maryland, *Delmarva*, **Reed (1)**.

Lygosoma (Leiopisoma) mariae, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Lygosoma (Leiopisoma) metallicum, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Lygosoma (Leiopisoma) nigromarginata, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Lygosoma (Leiopisoma) noctua, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Lygosoma (Leiopisoma) novae-caledoniae, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Lygosoma pellopleurum, Of Amami Group, Loo Choo Ids., **Koba**.

Lygosoma (Leiopisoma) slevini, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Lygosoma (Leiopisoma) steindachneri, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Lygosoma (Leiopisoma) tricolor, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Lygosoma (Leiopisoma) variabile, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Lygosoma (Sphenomorphus) sp.?, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Mabuya atlantica, Saltwater association, **Neill (2)**.

Mabuya blandingii, From Liberia, **Taylor & Weyer**,

Mabuya brachypoda, is considered the proper name for the Mexican species, **Webb**.

Mabuya capensis, From Nyamaziwa, 5,000 to 6,000 ft., Inyanga Dist., S. Rhodesia, **Fitzsimons (2)**.

Mabuya carinata, Of Malé, Maldive Ids., **Phillips**.

Mabuya damarana, Probably in Kalahari Gemsbok National Park, **Fitzsimons & Brain (4)**.

Mabuya elegans, Saltwater association, **Neill (2)**.

Mabuya longicaudata, From Thailand, **Taylor & Elbel**.

Mabuya mabouia alliacea, Distribution in Colima and W. Mexico, **Duellman (3)**.—From Guatemala, Peten, Tikal; Uaxactún, **Stuart**.

Mabuya macularia, Of Thailand, key to subspecies: *m. quadrfasciata*, subsp. nov., [p. 1103], type loc. Phu Nam Lang (mt.), 1,780 m., Ban Khok (subvillage), Na Phung (village), Dan Sai (dist.), Loei (prov.); *m. postnasalis* subsp. nov., [p. 1105], type loc. Phu Lom Lo (mt.) 2,100 m., Kok Sathon (village), Dan Sai (dist.) Loei (prov.); *m. malcolmi*, subsp. nov. [p. 1107], type

oc. Phu Phak Khi Nak (mt.), nr. Ban Nam Yen (subvillage), Kok Sathon (village), Dan Sai (dist.), Loei (prov.); *n. multifasciata*, Univ. Kansas sci. Bull. 38 2 1958, Taylor & Elbel.

Mabuya maculilabris maculilabris, From Liberia, Taylor & Weyer.

Mabuya multicarinata, On distribution in Pacific Ids., zoogeography, Brown, W. C.

Mabuya multifasciata, On distribution in Pacific Ids., zoogeography, Brown, W. C.

Mabuya occidentalis, Of Kalahari Gemsbok National Park, Fitzsimons & Brain (4).

Mabuya quinquetaeniata scharica, From Uele, Belgian Congo, Laurent.

Mabuya sechellensis, From the Seychelles, Ridley & Percy.

Mabuya striata, From Inyanga Dist., S. Rhodesia, Fitzsimons (2).—Of Kalahari Gemsbok National Park, Fitzsimons & Brain (4).

Mabuya sudanensis, From Uele, Belgian Congo, Laurent.

Mabuya sulcata, Pineal circulation, figs., Steyn (2).

Mabuya varia varia, From Nyamaziwa, 5,000–6,000 ft., Inyanga Dist., S. Rhodesia, Fitzsimons (2).

Mabuya wrighti, From the Seychelles, photographs, Ridley & Percy.

Macroscincus coctaei, On food and pests, Klemm, M.

Neoseps reynoldsi, Of S. Florida, Duellman & Schwartz.

Ophiomorus blanfordi, Saltwater association, Neill (2).

Rhodona, On adaptive convergence, Mitchell.—*R. lineopunctulata*, Of S.W. coast, Australia, photographs, specimen and sand body impressions, Mertens (8).

Riopa albofasciolata, *boucourti*, *arnieri*, *microlepis*, On distribution in Pacific Ids., zoogeography, Brown, W. C.—*R. albopunctata*, From Malé, Maldives, Philips.—*R. fernandi*, From Liberia, Taylor & Weyer.—*R. rufescens*, From Rennell Id., Volsøe (1).

Scelotes aeneus, Saltwater association, Neill (2).—*S. arenicola*, Of Mozambique, Manacas (1).—*S. arnoldi*, From Inyanga Dist., S. Rhodesia, Fitzsimons (2).

Scincella assata taylori, Distribution in Colima, Duellman (3).—*S. cherriei izbaac*, From Guatemala, Peten, Tikal; Uaxactún, Stuart.—*S. laterale*, From Coahuila, Muzguiz, Mexico, Zweifel (2).

Scincus officinalis On food and pests, Klemm, M.—*S. scincus*, Seasonal variation of male urogenital organs, figs., Badir.

Sphenomorphus—see references also under *Lygosoma*.

Sphenomorphus sp., Of Dutch New Guinea, general notes, Brongersma (6).—*S. indicus indicus*, (photograph); *maculatus*, Of Thailand, photographs, Taylor & Elbel.—*S. melanopleurus*, sp. nov., type loc.: Marienberg, Sepik R., New Guinea, paratypes from various localities, p. 264, fig.; *multisquamatus*, sp. nov., type loc.: Kiau, Mt. Kina Balu, N. Borneo, 3,000 ft., paratypes from various loc., p. 261, fig.; *sabanus*, sp. nov., type loc.: Sapagaya Forest Reserve, Sandakan Dist., N. Borneo, paratypes from various loc., p. 258, pl. head fig.; *variegatus*, on colour position and geographic variation, fig., Fieldiana zool. 39 (24) 1958, Inger (1).

Tiligua, On food and pests, Klemm, M.—*T. gerrardii*, fig., *nigrolutea*, *occipitalis multifasciata*, Observations in captivity, Adler (3).—*T. scincoides gigas*, Of Dutch New Guinea, general notes, lore, figs., Brongersma (6).

Trachysaurus rugosus, Of King's Park, Glauert.—On food and pests, Klemm, M.—On drinking habits, Sadleir.

Trachydosaurus r. rugosus, Of S.W. coast of Australia, photograph, and foot-prints, Mertens (8).—*Trachydosaurus rugosus konowi*, sub. sp. nov., type locality, Rottneest Id., W. Australia, *T. r. rugosus* (fig.), Senck. biol. 39 1–2, 1958, p. 52, figs., Mertens (2).

Tribolonotus novae-guineae, Of Dutch New Guinea, figd., general notes, Brongersma (6).

Typhlosaurus 'aurantiacus, From Mozambique, Manacas (1).—*T. bicolor*, From Nyamaziwa, Inyanga Dist., S. Rhodesia, neotype nominated and described, Fitzsimons (2).—*T. lineatus*, Of Kalahari Gemsbok National Park, Fitzsimons & Brain (4).

SHINOSAURIDAE

Shinosaurus crocodilurus, General note, fig., **Wermuth** (4).

TEIIDAE

Ameiva ameiva ameiva, Of Venezuela, Bolivar State, **Roze** (2).—*A. ameiva*, subsp., Of S. Florida, **Duellman & Schwartz**.—*A. polops, auberi*, Saltwater association, **Neill** (2).—*A. undulata*, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*A. undulata gaigeae*, From Guatemala, Peten, Tikal; Uaxactun, **Stuart**.—*A. u. podarga*, From E. Tamazunchale, 600 ft., San Luis Potosi, Mexico, **Axtell**.—*A. u. sinistra*, Distribution in Colima and W. Mexico, **Duellman** (3).—From Ixtapa, Jalisco, Mexico, northernmost locality, **Smith, H. M. & Grant** (5).

Bachia cophias, First record in the Brazilian Amazon region, figs., **Cunha**.

Cnemidophorus, Natural history on four species in Trans-Pecos, Texas, **Milstead**.

Cnemidophorus deppei lineatissimus, Distribution in Colima and W. Mexico, **Duellman** (3).—Saltwater association, **Neill** (2).

Cnemidophorus guttatus immutabilis, in Colima, **Duellman** (3).

Cnemidophorus hyperythrus hyperythrus, From Magdalena Id. and Santa Margarita Id., Baja California, **Zweifel** (1).

Cnemidophorus lemniscatus lemniscatus, Of Anyantepui, Bolivar, Venezuela, **Roze** (2).

Cnemidophorus neomexicanus **Lowe & Zweifel**, is a synonym of *C. perplexus*, **Maslin, Beidleman & Lowe**.

Cnemidophorus perplexus, On status, type locality is probably: Valley of the Rio Grande, Sandoval Cnty., N. Mexico, vicinity S.W. of Santa Fé, *neomexicanus* **Lowe & Zweifel** is a synonym, a tentative synonymy is given, **Maslin, Beidleman & Lowe**.

Cnemidophorus sacki copei, Distribution in Colima and W. Mexico, **Duellman** (3).—*C. s. gularis*, Notes on daily activities in Oklahoma, **McCoy**.—Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**

Cnemidophorus sexlineatus, Of Kansas, Lyon Cnty., **Clarke, Breukelman & Andrews**.—Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling** (1).—On the natural history, **Fitch** (1).—On movement range, **Fitch** (2).—Saltwater association, **Neill** (2).—On range limit, Maryland, Delmarva, **Reed** (1).—*C. s. sexlineatus*, Of S. Florida, **Duellman & Schwartz**.

Cnemidophorus tigris subsp.?, From vicinity of Pinacate larva cap, N.W. Sonora, Mexico, **Smith, P. W. & Hensley** (2).—*C. t. tigris*, From Baker Cnty., Oregon, colour difference, **Ferguson, Payne & Storm**.—*C. t. marmoratus*, From Chihuahua, Mexico, **Williams, K. L. & Smith, H. M.**—*C. t. multiscutatus*, From Cedros Id., Baja California, **Zweifel** (1).—*C. t. septentrionalis*, Of Glen Canyon, Utah, **Tanner** (4).

Cnemidophorus velox, Of Glen Canyon, Utah, **Tanner** (4).

Dracaena guianensis, Saltwater association, **Neill** (2).

Goniptychus bicolor, On generic status, should be *Ptychoglossus bicolor* and *Goniptychus* should be referred to synonymy of *Ptychoglossus*, **Uzzell** (1).

Gymnophthalmus underwoodi, sp. nov., Type loc.: Barbados, B.W.I., Herpetologica, 14 (4) 1958, p. 227, **Grant** (3).

Neusticurus, Of Venezuela, Bolivar State; *rudis, racenisi*, sp. nov., type loc.: Auyantepui, Bolivar State, [p. 252, figs.], Acta biol. venezuel., 2, 22, 1958, **Roze** (2).

Proctoporus luctuosus, and species related; key; *laevis, oculatus, lividus, shrevei, achlyens*, sp. nov., (p. 8) type loc.—20.5 km. N.N.W. of Maracay on Maracay-Rancho Grande road, 1,150 m., nr. Rancho Grande, Aragua, Venezuela, *hypostictus* (considered an anomalous *Prionodactylus*.) Occ. Pap. Mus. Zool. Univ. Mich. No. 597, 1958, **Uzzell** (2).

Tupinambis teguexin, On food and pests, **Klemm, M.**

UROPLATIDAE

see under GECKONIDAE

VARANIDAE

Zoogeography of the Pacific Basin, **Brown, W. C.**

[*Varanus*], Notes on capturing living specimens, **Fleay**.—*Varanus* sp., Of King's Park, **Glauert**.—On distribution in Pacific Ids., zoogeography, *indicus*, *salvator*, **Brown, W. C.**—Of Australia, keys, *a. acanthurus*; *a. brachyurus*; *a. insulanica*, subsp. nov. (p. 233), from Groote Id., Carpenteria Gulf, N.T.; *a. primordius*; *brevicauda*; *caudolineatus*, *eremius*; *gilleni*; *glauerti*; *glebopalma*; *semiremex*; *timorensis* *scularis*, fig.; *t. similis*; subsp. nov., from Groote Id., (p. 239, figs.); *tristis tristis*; *t. orientalis*; *giganteus*; *gouldii* *gouldii*, fig.; *g. flavirufus*, subsp. nov., type from Bat Caves, Alice Springs (p. 250, figs.); *g. rosenbergi*; *indicus indicus*; *mertensi*, figs.; *mitchelli*, sp., nov. type from W. of Ocupeili, N.T. (p. 256, figs.), *spenceri*, figs.; *varius*; Synonyms are; *boulengeri*, of *semiremex*; *tristis centralis* of *tristis orientalis*; **Senck. biol.** 39 5-6 1958, **Mertens** (4).—*t. komodoensis*, *salvator indicus*, *dumerili*, *niloticus*, Saltwater association, **Neill** (2).

Varanus bengalensis, On reproduction, Ceylon, fig., **Deraniyagala** (2).—On Pseudo-combat, figs., in Ceylon, **Deraniyagala, R. Y.**—*b. nebulosus*, Of Thailand, **Taylor & Elbel**.

Varanus dumerili, Saltwater association, **Neill** (2).

Varanus exanthematicus, From Portuguese Guinea, **Managas** (2).—(*albigularis*), On bird eating, **Pitman**.

Varanus giganteus, Of S.W. coast, Australia, photograph, **Mertens** (8).

Varanus gouldii, Of N. Queensland, **Irvine**.—Of S.W. coast, Australia, **Mertens** (8).—Photograph, **Warham** (1).

Varanus griseus, Microscope examination of kidney, figs., **Abraham**.—Plasma proteins, **Nair**.

Varanus hooijeri, sp. nov. type loc.: Michael nr. Longgo, Manggarai, W. Flores, paratypes from Liang Michael, Liang Toge nr. Warupia, Manggarai, subfossil remains. **Zool. Meded.** 36 (7) 1958, p. 114, figs., **Brongersma** (3).

Varanus indicus, (head fig.), Of Dutch New Guinea, general notes, **Brongersma** (6).—On Pacific Ids., zoogeography, **Brown, W. C.**—Saltwater association, **Neill** (2).—*V. i. indicus*, from Rennell Id., **Volsøe** (1).

Varanus komodoensis, On feeding habits, photographs, growth etc., **Hoo-gerwerf**.—Notes, **Mertens** (8).—Saltwater association, **Neill** (2).

Varanus monitor, On spermatogonial chromosomes, fig., **Bhatnagar**.—The hyoid and associated structures, figs., **Sondhi**.

Varanus niloticus, From Portuguese Guinea, **Managas** (2).—Saltwater association, **Neill** (2).—On bird eating, **Pitman**.

Varanus prasinus, Of Dutch New Guinea, general notes, **Brongersma** (6).

Varanus rudicollis, Specimen 146 cm. in length, from Ampang Forest Reserve, nr. Kuala Lumpur, pl., **Boo-Liat** (1).

Varanus salvator, On Pacific Ids., zoogeography, **Brown, W. C.**—Saltwater association, **Neill** (2).

Varanus varius, Of N. Queensland, **Irvine**.—Of S.W. coast, Australia, **Mertens** (8).

XANTUSIIDAE

Lepidophyma flavimaculatum tenebrarum Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**

Xantusia riversiana, Saltwater association, **Neill** (2).—*X. vigilis vigilis*, Increased activity following shielding of parietal eye, **Glaser**.—*X. v. utahensis*, Of Glen Canyon, Utah, **Tanner** (4).—From Utah, first record on east side of Colorado R., **Tanner** (5).

XENOSAURIDAE

Xenosaurus nesomanorum, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**

SERPENTES

General: Recent.—Handlist of the snakes of Panama, **Smith, H. M.** (2).—Biogeography of Gomez Farias Region, Tamaulipas, **Martin, P. S.**—List of snakes from Flores, **Hoesel**.—Field guide to U.S.A. and Canada, figs., col. pls., etc. (Not itemized in Systematic Section), **Conant** (1).—Checklist of snakes of S. Rhodesia, **Broadley** (6).—Key to snakes of Rhodesia and Nyasaland, **[Broadley]** (9).—Of Northern Rhodesia and the Tanganyikan borderlands, keys, general notes, figs. and photographs, **Vesey-Fitzgerald** (1).—

Revision of five African genera, (*Lyconomorphus*, *Natriciteres*, *Philothamnus*, *Prosymna*, *Chilorhinophis*, **Loveridge**.—Snakes of Madagascar, keys to families, genera, species, figs., descriptions, **Guibé (1)**.—Comparative functional-anatomical study of heads, **Dullemeijer**.

ACROCHORDIDAE see under COLUBRIDAE.

AMBLYCEPHALIDAE, see under COLUBRIDAE.

ANILIDAE

Anilius scytale, From Amazonian Ecuador, high ventral count and blotch counts, **Peters, J. A.**—*A. s. scytale*, From Venezuela, **Roze (3)**.—*A. s. phelpsorium*, subsp. nov., Type loc.: Auyantepui, Bolivar State, Venezuela, *Acta biol. Venezuel.* 2, 22, 1958, p. 258, fig., **Roze (2)**.

Cylindrophis opisthorhodus, From Flores, **Hoesel**.—*C. rufus*, From Asahan, Malacca, **Batchelor**.

ANOMALEPIDAE

See under TYPHLOPIDAE

BOIDAE

Hand list of genera and species in Panama, **Smith, H. M. (2)**.—Checklist of S. Rhodesia, **Broadley (6)**.—Of Madagascar, key to subfamilies, Boinae and Bolyerinae, and genera, species, figs., etc., **Guibé (1)**.—Zoogeography of the Pacific Basin, **Brown, W. C.**—Of Cairns, N. Queensland, **Hosmer**.

Acrantophis madagascariensis, dumerilii, heads figd., descriptions, of Madagascar, **Guibé (1)**.

Boa see under *Constrictor*.

Bolyeria multicarinata, Of Madagascar, description, **Guibé (1)**.

Bothrochilus boa Saltwater association, **Neill (2)**.

Calabaria reinhardti, From the Ivory Coast, head photograph, **Condamin**.—From Liberia, **Taylor & Weyer**.

Casarea dussumieri, Of Madagascar, head fig., description, **Guibé (1)**.

Charina bottae utahensis, From Utah, range extended, **Tanner (5)**.

Constrictor constrictor, Of Gomez Farias Region, Tamaulipas, Biogeography, **Martin, P. S.**—*B. constrictor*,

c. imperator, In terrarium, **Rust**.—*B. c. imperator*, Distribution in Colima and W. Mexico, **Duellman (3)**.—*C. constrictor imperator*, Of Panama, **Smith, H. M. (2)**.—From Jalisco, Mexico, **Smith, H. M. & Grant (5)**.—From Tikal, Peten, Guatemala, **Stuart**.—*B. hortulana cooki, annulata*, Of Panama, **Smith, H. M. (2)**.—*B. h. cooki*, Of Panama, **Smith, H. M. & Grant (6)**.

Enygrus, On distribution in Pacific Ids., zoogeography; *australis, bibroni, carinatus*, **Brown, W. C.**—*E. bibroni, australis, carinatus*, From Rennell Id., first records, **Volsøe (1)**.—*E. carinatus*, Saltwater association, **Neill (2)**.—*E. carinatus; bibroni australis*, From Rennell and Bellona Ids., **Volsøe (2)**.

†*Epicrates angulifer*, From Late Pleistocene cave deposits in Cuba, **Bratistrom (1)**.—*E. angulifer*, 19 years, 2 mths., in captivity still alive, **Shaw (1)**.—*E. cenchria cenchria*, Of Venezuela, Bolivar State, **Roze (2)**.—*E. c. maurus*, Of Panama, **Smith, H. M. (2)**.

Eryx colubrinus, On bird eating, **Pitman**.—*E. conicus*, From Bihar, **Acharji**.—*E. jaculus*, Saltwater association, **Neill (2)**.—(†) On origin in Roumania, **Stugren**.

Eunectes murinus, From Ecuador, first record, **Peters, J. A.**

Liasis, Of Dutch New Guinea, general notes, **Brongersma (6)**.—*L. childreni*, Photograph, **Warham (1)**.—*L. taronga*, sp. nov., type loc.: Lae, Papua, collector's note says "fed on water birds, eggs and paw-paws," specimen was fed rats in captivity, *Proc. R. zool. Soc. N.S.W.* 1956-57, 1958, p. 26, head figs., photograph, **Worrell**.

Loxocemus bicolor, 15 years in captivity, still alive, **Shaw (1)**.—*L. sumichrasti*, Distribution in Colima and W. Mexico, **Duellman (3)**.

Python, Coloration of teeth through iron oxide, **Schmidt, W. J.**

Python curtus, From Asahan, Malacca, **Batchelor**.—On colour pattern, fig., **Boo-Liat (2)**.—*P. c. curtus*, 21 years, 10 mths., in captivity, still alive, **Shaw (1)**.

Python molurus, On colour pattern, fig., **Boo-Liat (2)**.—*P. m. bivittatus*, 21 years, 9 mths., in captivity, still alive, **Shaw (1)**.

Python regius, 12 years, 9 mnths., in captivity, **Shaw** (1).

Python reticulatus, From Asahan, Malacca, **Batchelor**.—On colour pattern, fig., **Boo-Liat** (2).—Saltwater association, **Neill** (2).—(*timorensis* [not correctly identified = *Lialis amethystinus*]). From Flores, **Hoesel**.

Python sebae, From Senegal, **Condamin**.—On bird eating, **Pitman**.—From N. Rhodesia, photo., **Vesey-Fitzgerald** (1).

Sanzina, The trunk musculature and its bearing on myological evolution figs., **Auffenberg**.—*S. madagascariensis*, Of Madagascar, head fig., description, **Guibé** (1).

Trachyboa boulengeri, Of Panama, **Smith, H. M.** (2).

Tropidophis m. maculatus, Saltwater association, **Neill** (2).

Ungaliophis panamensis, Of Panama **Smith, H. M.** (2).

COLUBRIDAE

Notes on the Dipsadinae and Pareinae; names now used for the Amblycephalidae; Pareinae, Asiatic genera; figs. of maxillary, **Brongersma** (1).—Hand list of genera and species in Panama, **Smith, H. M.** (2).—Checklist of S. Rhodesia, **Broadley** (6).—Of Madagascar, keys to subfamilies, genera and species, figs., etc., **Guibé** (1).—Zoogeography of the Pacific Basin, **Brown, W. C.**—Of Cairns, N. Queensland, **Hosmer**.—On the anatomy of the Acrochordinae, **Bergman** (2).

Abastor erythrogrammus, From Mississippi, **Cliburn**.—Remarks on range, behaviour and habitat, **Gordon**.—Saltwater association in Florida, **Neill** (2).—On range limits, Maryland, Delaware, **Reed** (1).

Ablabophis Boul., 1893 is a synonym of *Lycodonomorphus*, **Loveridge**.

Achalinus werneri, Of Amami Group, Loo Choo Ids., *loochooensis* is a synonym, **Koba**.

Acrochordus granulatus, Of Thailand photograph, **Taylor & Elbel**.—[*Chersydrus*] *granulatus*, Saltwater association, **Neill** (2).—*A. javanicus*, fig., *granulatus* On the anatomy, **Bergman** (2).—Saltwater association, **Neill** (2).

Adelphicos quadrivirgatus, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*A. q. visoninus*, From Tikal, Peten, Guatemala, **Stuart**.

Ahaetulla, referred to by **Smith** 1943, is now *Dendrelaphis*, and *Ahaetulla* now includes form placed in *Dryophis* by **Smith** 1943, **Opinion** 524.—*A. ahaetulla ahaetulla*, Of Thailand, **Taylor & Elbel**.—*A. a. caudolineata*, From Asahan, Malacca, **Batchelor**.—*A. picta intermedia*, From Flores, **Hoesel**.

Alluandina, Of Madagascar, key, etc., *bellyi* (head fig.), *mocquardi* (head fig.), **Guibé** (1).

Alsophis angulifer, Note on nomenclature, should be recognised as *A. cantherigus*, **Smith, H. M. & Grant** (7).—*A. a. angulifer*, *antillensis*, On Saltwater association, **Neill** (2).

Amastridium sapperi, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*A. veliferum*, Of Panama, **Smith, H. M.** (2).

Amplorhinus multimaculatus, From Inyanga Dist., S. Rhodesia, **Fitzsimons** (2).

Apallactus capensis capensis, From Nyamaziwa, 5,000 to 6,000 ft., Inyanga Dist., S. Rhodesia, **Fitzsimons** (2).—Of N. Rhodesia, **Vesey-Fitzgerald** (1).—*A. l. lunulatus*, On feeding process observed in captivity, **Broadley** (7).—*A. l. nigrocollaris*, From Ituri, *capensis punctatolineatus*, from Haut Katanga, Belgian Congo, **Laurent**.—*A. modestus*, From Liberia, **Taylor & Weyer**.

Arizona elegans noctivaga, From vicinity of Pinacate larva cap, N.W. Sonora, Mexico, **Smith, P. W. & Hensley** (2).—*A. e. occidentalis*, Range extended 30 air miles N. to junction of San Joaquin and Sacramento Rivers; California; Contra Costa Co., and Santa Clara Co., **Crawford**.

Aspidura trachyprocta, From Malé, Maldives, **Phillips**.

Atractus clarki, *crassicaudatus*, Of Panama, **Smith, H. M.** (2).—*A. steyermarki*, sp. nov., type loc. Chimanta Tepui, Estado Bolivar, Venezuela, 1,430 m., *Acta biol. venezuel.* 2, 25, 1958, p. 301, **Roze** (3).

Bitia, On saltwater association, **Neill** (2).

Boaedon, Of N. Rhodesia, *f. fuliginosus*, (photo); *olivaceus*, **Vesey-Fitzgerald** (1).—*B. fuliginosus (lineatus)*, On bird eating, **Pitman**.—*B. fuliginosus*, From Senegal, **Condamin**.—From Portuguese Guinea, **Manacas** (2).—*B. f. fuliginosus*, General notes, photographs, of S. Rhodesia, **Broadley** (4).—*B. geometricus*, ?Madagascar, **Guibé** (1).—*B. lineatus*, From Senegal, **Condamin**.—*B. l. lineatus*, Of Kalahari Gemsbok National Park, **Fitzsimons & Brain** (4).—From Portuguese Guinea, **Manacas** (2).—*B. l. virgatus, l. lineatus*, From Liberia, **Taylor & Weyer**.—*B. virgatus*, From the Ivory coast, **Condamin**.

Boiga multimaculata, cyanea, Of Thailand, (photograph), **cynodon, Taylor & Elbel**.—*B. blandingii*, From Portuguese Guinea, **Manacas** (2).—On bird eating, **Pitman**.—From Liberia, **Taylor & Weyer**.—Of N. Rhodesia, **Vesey-Fitzgerald** (1).—and *pulverulenta*, From the Ivory Coast, **Condamin**.—*B. cynodon*, From Flores, photograph, **Hoessel**.—*B. dendropila*, From Asahan, Malacca, **Batchelor**.—On saltwater association, **Neill** (2).—and *nigriceps*; *cynodon*; On tail vibration, **Waters**.—*B. fusca*, General essay, **Lawson**.—*B. kraepelini*, New record for Chekiang, China, head fig., **Hu, Hwang, Ho & Wei**.—*B. trigonata*, From Bihar, **Acharji**.

Bothrophthalmus lineatus lineatus, From Liberia, **Taylor & Weyer**.

Calamaria albiventer, From Asahan, Malacca, **Batchelor**.

Calamelaps unicolor, Of N. Rhodesia, **Vesey-Fitzgerald** (1).—*C. u. miolepis*, On feeding in captivity, preference for *Typhlop*, **Broadley** (7).—*C. ventrimaculatus websteri*, subsp. nov., Type loc.: Sawmills, S. Rhodesia, Occ. Pap. nat. Mus. S. Rhod., 3 3, 1958, p. 202, head fig., **Fitzsimons & Brain** (3).

Cantoria, On saltwater association, **Neill** (2).

Carphophis amoenus, Of Kansas, Lyon Co., **Clarke, Breukelman & Andrews**.—Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling** (1).—On movement range, **Fitch** (2).—*C. a. amoenus*, Of Piedmont, Delmarva, **Reed** (2).—*C. a. helenae*, From Mississippi, **Cliburn**.

Cemophora coccinea, Of Mississippi (Panhandle Counties), **Brode & Allison**.—From Mississippi, **Cliburn**.—Record from Delmarva, Salisbury, **Conant** (2).—Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling** (1).—Of S. Florida, **Duellman & Schwartz**.—A second record from Indiana, observations on egg-eating, **Minton & Bechtel**.—On range limits, Maryland, **Reed** (1).

Cempsophis albiventer, Of Madagascar, head figs., **Guibé** (1).

Cerberus rhynchops, From Asahan, Malacca, **Batchelor**.—From Flores, **Hoessel**.—On saltwater association, **Neill** (2).

Chamaetortus aulicus, Of N. Rhodesia, **Vesey-Fitzgerald** (1).

Chersydrus see under *Acrochordus*.

Chilorhinophis Werner 1907, Revision of genus, key to species, geographic range, natural history notes, etc., synonymy includes *Parkerophis* Barb. & Amaral 1927; species are: *gerardi gerardi*; *g. tanganyikae*, *butleri*, *carpenteri carpenteri*, *c. livalensis*, **Loveridge**.—*C. gerardi*, Of N. Rhodesia, **Vesey-Fitzgerald** (1).

Chionactis occipitalis annulata, and *o. annulata/klauberi* intermediate, From vicinity of Pinacate larva cap, N.W. Sonora, Mexico, **Smith, P. W. & Hensley** (2).

Chironius carinatus, Of Auyantepui, Bolivar, Venezuela, **Roze** (2).—and *fucus*, Of Panama, **Smith, H. M.** (2).

Chlorophis see under *Philothamnus*.

Chrysopelea ornata, On observed gliding, **Pagden**.—Of Thailand, **Taylor & Elbel**.—*C. o. var lungchuanensis*, var. nov., type loc.: Lungchuan, Chekiang, China, Acta zool. Sin., 10 (2) 1958, pp. 117, 121, head figd., **Hu, B. C., Hwang, M. H., Ho She-Sing & Wei Ke-chen**.—*C. paradisi*; *pelias*, From Asahan, Malacca, **Batchelor**.

Clelia clelia clelia, Of Panama, **Smith, H. M.** (2).—From Panama; probably *c. clelia* of E. Mexico and *c. immaculata* of W. Mexico are synonymous, **Smith, H. M. & Grant** (6).—*C. c. immaculata*, Distribution in Colima and W. Mexico **Duellman** (3).

Coluber, Of Ahl Mascot, N. Somaliland, **Scortecchi**.

Coluber ahaetulla Linn. 1758, Interpretation of the nominal species, referred to *Dendrelaphis*, **Opinion 524**.

Coluber algirus algirus, From Libya, natural history notes, **Kramer & Schnurrenberger**.

Coluber Ashmeadie Hallowell = *Leptodeira annulata ashmeadii* (Hallowell), as *Leptodeira rhombifera kugleri* Shreve 1947, **Roze (1)**.

Coluber atratus Hallowell = *Ninia atrata* (Hallowell), **Roze (1)**.

Coluber bicinctus, On generic assignment. Referred to *Dugandia* Dunn, should be referred to genus *Hydrodynastes* Fitzinger, **Hose**.

Coluber constrictor, Of Kansas, Lyon Co., **Clarke, Breukelman & Andrews**.—On geographic variation in plasma pattern, **Dessauer & Fox**.—Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling (1)**.—On movement range, **Fitch (2)**.—Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—On saltwater association, **Neill (2)**.—*C. c. constrictor*, zoogeography of E. Canada, **Bleakney (1)**.—From Lawrence Cnty., new record, Ohio, **Dennis (3)**.—*C. c. constrictor* × *flaviventris*, First record for Perry Cnty., Ohio, **Amorose**.—*C. c. flaviventris*, On reproduction and feeding, **Carpenter (1)**.—Of Ohio, egg young 11½ length, **Dennis (4)**.—Blood chemistry, **Hutton**.—*C. c. mormon*, From Baker Cnty., Oregon, **Ferguson, Payne & Storm**.—*C. c. paludicola*, *c. priapus*, Of S. Florida, **Duellman & Schwartz**.—*C. c. priapus*, From Mississippi, **Cliburn**.—On saltwater association, **Neill (2)**.—*C. c. stejnegerianus*, In the Sierra del Carmen, Coahuila, Mexico, **Zweifel (2)**.

Coluber florulentus, On bird eating, **Pitman**.

Coluber fuliginosus Hallowell = *Atractus fuliginosus* (Hallowell), **Roze (1)**.

Coluber fuscus Hallowell = *Dryadophis boddaertii* (Santz.) as *Drymobius* Blgr. Cat. 2, p. 11 and *Dryadophis boddaertii boddaertii* Stuart 1941, **Roze (1)**.

Coluber gemonensis, recorded Vol. 94 (1957) erroneously from Czechoslovakia, should read, Slovenia, Yugoslavia, **Brelih, S.**

Coluber hippocrepis, From Spain, Andalusia, **Mountfort**.—On saltwater association, **Neill (2)**.

(†)*Coluber jugularis*, On origin in Roumania, **Stugren**.—*Coluber jugularis caspius*, In captivity, photograph, **Houba (2)**.—(= *Zamenis caspius* Everson), Cannot be regarded as of fauna in Poland, **Fudakowski**.—*C. j. erythrogaster*, Of Transcaucasica **Rotter (1)**.

Coluber pickeringii Hallowell = *Chironius carinatus* Linn., as *Herpetodryas fuscus* Blgr. Cat. 2 p. 75, **Roze (1)**.

Coluber pictus Gmelin 1789 is accorded precedence over *Coluber boiga* Lacépède 1789, **Opinion 525**.

Coluber rogersi, From Libya natural history notes, **Kramer & Schnurrenberger**.

Coluber spixii Hallowell = *Chironius carinatus* (Linn.) as *Herpetodryas fuscus* in Blgr. Cat. 2 p. 75, **Roze (1)**.

Coluber variegatus Hallowell = *Sibon nebulatus* (Linn.), **Roze (1)**.

Coluber viridiflavus, General notes, **Keller**.—*C. v. viridiflavus*, On presence in Barrois, Lorraine, **Condé & Mathieu**.—*C. v. carbonarius*, From Puschlavs, 520–1,400 m., Switzerland and Italy, **Kramer (1)**.—*C. v. carbonarius*, recorded Vol. 94 (1957), erroneously from Czechoslovakia, should read, Slovenia, Yugoslavia, **Brelih, S.**

Coluber vittatus Hallowell = *Leimadophis melanotus* (Shaw) 1802, as *Liophis melanotus* in Blgr. Cat. 2 p. 134, **Roze (1)**.

Coniophanes fissidens fissidens, Of Panama, **Smith, H. M. (2)**.—*C. f. proterops*, *lineatus lineatus*, From Veracruz, **Fugler & Dixon**.—*C. frangivirgatus*, *imperialis*, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*C. imperialis clavatus*, From Tikal; Uaxactún, *schmidtii*, from Tikal, Peten, Guatemala, **Stuart**.—*C. lateritius lateritius*, From Puerto Vallarta, Jalisco, head figd., *l. melanocephalus*, head figd.; resurrected for southern (Guerrero-Puebla) population, **Smith, H. M. & Grant (5)**.—*C. lateritius*.—*C. vittatus vittatus*, Distribution in Colima and W. Mexico, **Duellman (3)**.

Contia tenuis, Southern range, nr. summit of Pine Mtn. (6 mls. E.N.E. of San Simeon, 3,954 ft., San Luis Obispo Co., California, **Pimental**.

[*Coronella austriaca*], Of Valais, Switzerland, **Mariétan**.—*C. austriaca*, Mainly on feeding, **Broadley** (5).—Of St. Peter's Hill (St. Petersburg), Maastriche, Nederland, **Brongersma** (7).—Of E. France, general, **Germaine**.—On Dorset specimens, **Gooch**.—Of Bamberg, Bavaria, **Heilingbrunner**.—Photographs of birth, **Oomen**.—(†) On origin in Roumania, **Stugren**.—General work on German fauna, col. plate, etc., **Wermuth** (1).—*C. a. austriaca*, Of Germany, general work, photographs, **Frommhold**.—From Puschlavs, Switzerland, **Kramer** (1).—Notes on specimen in Nat. Hist. museum terrarium Enschede, **Roding** (1).—Of Twente, Holland, **Roding** (2).—Of Hungary, Pilis, photographs, some nature notes, **Szábó**.—Recorded Vol. 94 (1957), erroneously as from Czechoslovakia, should read as Slovenia, Yugoslavia, **Brelj**, S.

Coronella girondica, From Morocco, Ifrane region, **Bons**.—From Cota Doñana, Spain, **Mountfort**.

Crotaphopeltis, On detection of prey by smell, **Reece**.—*C. hotamboeia*, On bird eating, **Pitman**.—*C. h. hotamboeia*, From Senegal, **Condamin**.—Of N. Rhodesia, photo., **Vesey-Fitzgerald** (1).—From Portuguese Guinea, **Manaças** (2).

Cyclagras is untenable, should be referred to *Lejosophis* Jan., **Eose**.—*C. gigas*, In captivity, notes on egg-laying, photographs, **Vogel**.

Dasyplectis, On types of eggs eaten, **Pitman**.—*D. scabra*, General article, photographs, **Broadley** (2).—Coloration of teeth through iron oxide, **Schmidt**, **W. J.**—Of N. Rhodesia, photo., **Vesey-Fitzgerald** (1).—*D. s. scaber*, From Portuguese Guinea, **Manaças** (2).

Dendrelaphis must refer to snakes included in *Ahaetulla* by Smith, 1943, Opinion 524.—On distribution in Pacific Ids., zoogeography, *calligaster*, *lineolatus*, **Brown**, **W. C.**

Dendrophidion bivittatus, *clarki*, *paucicarinatus*, *percarinatus*, *vinitor*, Of Panama, **Smith**, **H. M.** (2).—*D. percarinatus*, From Panama, **Smith**, **H. M.** & **Grant** (6).

Diadophis amabilis, On saltwater association, **Neill** (2).—*D. punctatus*, Of Mississippi, (Panhandle Counties), **Brode** & **Allison**.—Of Kansas, **Lyon**

Co., **Clarke**, **Breukelman** & **Andrews**.—Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling** (1).—On movement range, **Fitch** (2).—*D. p. punctatus*, Of S. Florida, **Duellman** & **Schwartz**.—On range limits, Maryland, **Reed** (1).—*D. p. arnyi*, On female albino from Kansas, **Earle**.—*D. p. edwardsi*, Zoogeography of E. Canada, **Bleakney** (1).—Albino from Virginia, **Cooper** (2).—Of Piedmont, Delmarva, **Reed** (2).—*D. p. stictogenys*, From Mississippi, **Cliburn**.

Dinodon flavozonatum, New record for Chekiang, China, figs., **Hu**, **Hwang**, **Ho** & **Wei**.—*D. semicarinatum*, Of Amami Group, Loo Choo Ids., photographs, **Koba**.

Dipsadoboa shrevei, Of N. Rhodesia, third record, **Vesey-Fitzgerald** (1).—*D. unicolor unicolor*, From N. Kivu, Belgian Congo; *depressiceps*, note on habitat and food, **Laurent**.

Dipsas annulata, *anthracops*, *articulata*, *longifrenis*, *nicholsi*, *temporalis*, *viguieri*, Of Panama, **Smith**, **H. M.** (2).—*D. gaigeae*, Distribution in Colima, **Duellman** (3).

Dispholidus typus, From Senegal, **Condamin**.—Probably in Kalahari Gemsbok National Park, **Fitzsimons** & **Brain** (4).—Biochemistry of venom, **Kaiser** & **Mihl**.—From Portuguese Guinea, **Manaças** (2).—On bird and egg eating, **Pitman**.—Report on fatal bite, **K. P. Schmidt**, **Pope**.—Of N. Rhodesia, photo., **Vesey-Fitzgerald** (1).—*D. t. viridis*, From Ituri, *t. kivuensis*, N. Kivie, Belgian Congo, **Laurent**.

Ditaxodon, gen. nov., for *Philodryas taeniatatus* Hensel 1868, type loc.: Porto Alegre, state Rio Grande do Sol, Brazil, Mitt. zool. Mus. Berlin, 34 (1) 1958, p. 54, maxillary figs., **Hoge**.

Dromicodryas, Of Madagascar, key, etc., *bernieri* (figs.), *quadrilineatus* (figs.), **Guibé** (1).

Dromicus andreae, Is the correct name for *Dromicus cursor*, discussion, **Smith**, **H. M.** & **Grant** (7).—*D. funereus*, *andreae*, On saltwater association, **Neill** (2).

Dromophis lineatus, From Portuguese Guinea, **Manaças** (2).—Of N. Rhodesia, **Vesey-Fitzgerald** (1).

Dryadophis boddaertii, Of Venezuela, Bolivar State, Roze (2).—*D. melanolomus*, Of Gomez Farias Region, Tamaulipas, biogeography, Martin, P. S.—*D. m. alternatus*, pleei, Of Panama, Smith, H. M. (2).—*D. m. alternatus*, From Panama, Smith, H. M. & Grant (6).—*D. m. stuarti*, Distribution in Colima, Duellman (3).—First record for Jalisco, Mexico, Smith, H. M. & Grant (5).—*D. melanolomus*, subsp.? From Tikal, Peten, Guatemala, Stuart.

Drymarchon corais, Of Gomez Farias Region, Tamaulipas, biogeography, Martin, P. S.—*D. corais couperi*, Of S. Florida, Duellman & Schwartz.—On saltwater association, Neill (2).—25 years 4 mths. in captivity, still alive, Shaw (1).—*D. c. melanurus*, Of Panama, Smith, H. M. (2).—*D. c. rubidus*, *margaritiferus fistulosus*, Distribution in Colima and W. Mexico, Duellman (3).

Drymobius chloroticus, First record from El Salvador, Uzzell & Starrett.—*D. margaritiferus*, Of Gomez Farias Region, Tamaulipas, biogeography, Martin, P. S.—*D. m. margaritiferus*, From Tikal, Peten, Guatemala, Stuart.—From Coahuila, Muzquiz, Mexico, Zweifel.—and *rhombifer*, Of Panama, Smith, H. M. (2).

Dryophiops rubescens, Of Thailand, Taylor & Elbel.

Dryophis—used by Smith 1943 is referred to *Ahaetulla*, Opinion 524.—Of Thailand, *prasinus*, *nasutus*, Taylor & Elbel.—*D. prasinus*, From Asahan, Malacca, Batchelor.

Duberria lutrix, From N. Rhodesia, Vesey-Fitzgerald (1).—*D. l. lutrix*, From Nyamaziwa, 5,000 to 6,000 ft., Inyanga Dist., S. Rhodesia, Fitzsimons (2).—*D. l. rhodesiana*, subsp. nov., type loc.: Chishawasha, nr. Salisbury, S. Rhodesia, Occ. Pap. nat. Mus. S. Rhod. 3 3 1958, p. 215, Broadley (1).

Dugandia bicinctus (Hermann)—should be referred to genus *Hydrodynastes* Fitz., Hose.

Eirenis collaris, *modesta*, Of Transcaucasia, Rotter (1).

Elaphe, Taxonomic study and relationship with *Gonyosoma*; species referred to genus, 7 American, abt. 30 Eurasian, figs., Dowling (2).

Elaphe climacophora, From Japan, Alexander & Diener.—On seasonal prevalence in Kyoto, Japan, Fukada (2).

Elaphe conspicillata, From Japan, Alexander & Diener.—On seasonal prevalence in Kyoto, Japan, Fukada (2).

Elaphe dione, Of Transcaucasia, Rotter (1).

Elaphe flavirufa, Of Gomez Farias Region, Tamaulipas, biogeography, Martin, P. S.

Elaphe flavolineata, From Asahan, Malacca, Batchelor.

Elaphe guttata, Of Kansas, Lyon Co., Clarke, Breukelman & Andrews.—Of Arkansas, in geographic relations of Ozarkian reptiles, Dowling (1).—From Florida caves, Holman.—Of Gomez Farias Region, Tamaulipas, biogeography, Martin, P. S.—*E. g. guttata*, Reproduction in captivity, Bechtel.—Of Mississippi, Cliburn.—Of S. Florida, Duellman & Schwartz.—On range limits, Maryland, Reed (1).—*E. g. emoryi*, On lizard as food, Carpenter (1).—*E. g. rosacea* is a synonym of *g. guttata*, Duellman & Schwartz.—On saltwater association, Neill (2).

Elaphe hohenackeri, of Transcaucasia, Rotter (1).

Elaphe longissima, General note, Keller.—Of Valais, Switzerland, photographs, Mariétan.—General work on German fauna, col plates, etc., Wermuth (1).—*E. l. longissima*, Of Germany, general work photograph, Frommhold.—Of Hungary, Pilis, some nature notes, Szabó.—Recorded Vol. 94 (1957) erroneously from Czechoslovakia, should read as, Slovenia, Yugoslavia, Brelih, S.

Elaphe obsoleta, Of Kansas, Lyon Co., Clarke, Breukelman & Andrews.—Of Azkansas, in geographic relations of Ozarkian reptiles, Dowling (1).—On movement range, Fitch (2).—Remains in New Paris sink holes, Pennsylvania, Guilday & Bender.—From Florida caves, Holman.—*E. o. obsoleta*, New record for Perry Cnty., Ohio, Amorose.—On food habits, Bell.—Zoogeography of E. Canada, Bleakney (1).—On reproduction and food, Carpenter (1).—Albino from Maryland, Cooper (2).—From Holmes Cnty., Ohio, McMahon.—

E. o. confinis [*o. spiloides*], From Mississippi, **Cliburn**.—*E. o. deckerti*, is a synonym of *E. obsoleta quadrivittata*, **Duellman & Schwartz**.—*E. o. deckerti*, *o. quadrivittata*, *o. rossalleni*, On saltwater association, **Neill (2)**.—*E. o. quadrivittata*, *o. rossalleni*, Of S. Florida, **Duellman & Schwartz**.

Elaphe oxycephala, On tail vibration, **Waters**.

Elaphe quadrivirgata, From Japan, **Alexander & Diener**.—On seasonal prevalence in Kyoto, Japan, **Fukada (2)**.

(†)*Elaphe quatuorlineata*, On origin in Roumania, **Stugren**.—*E. q. sauromates*, Of Transcaucasica, **Rotter (1)**.

Elaphe radiata, Of Thailand, **Taylor & Elbel**.

Elaphe scalaris, From Cota Doñana, Spain, fig., **Mountfort**.

Elaphe subradiata, From Flores, **Hoesel**.

Elaphe triaspis, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*E. t. triaspis*, From Uxactún, Peten, Guatemala, **Stuart**.—*E. t. intermedia*, Distribution in Colima and W. Mexico, **Duellman (3)**.

Elaphe vulpina gloydi, Common in Long Point, Ontario, **Adams & Clark**.—From Kellys Id., Ohio, **Amorose**.—Zoogeography of E. Canada, **Bleakney (1)**.—Of Ohio, young 10 $\frac{3}{8}$ inch length, **Dennis (4)**.

Enhydriis, On salt glands, **Schmidt-Nielsen & Fange**.—Of Thailand, *plumbea*, *enhydriis*, **Taylor & Elbel**.—*E. bennetti*, On saltwater association **Neill (2)**.—*E. plumbea*, From Asahan, Malacca, **Batchelor**.

Enicognathus joberti Sauvage, 1884, is revived and includes in synonymy, *Dromicus lineatus* D. & B., *Liophis (Lygophis) genimaculatus* Boettg., *Rhadinaea genimaculata* Boul., (designated as lectotype), **Hose**.

Enulius flavitorques, From Panama, note on asymmetry of apical pits, **Smith, H. M. & Grant (6)**.—and *sclateri*, Of Panama, **Smith, H. M. (2)**.

Erpeton tentaculatum, On saltwater association, **Neill (2)**.

Erythrolamprus aesculapii, Of Auyan-tepui Bolivar, Venezuela, **Roze (2)**.—*E. bizonus*, *mimus impar*, *m. micrurus*, Of Panama, **Smith, H. M. (2)**.

Faranica abacura abacura, Of S. Florida, **Duellman & Schwartz**.—and *a. reinwardti*, Saltwater association, **Neill (2)**.—*F. a. reinwardti*, From Mississippi, **Cliburn**.

Ficimia olivacea streckeri, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*F. publia publia*, From Tikal, Peten, Guatemala, **Stuart**.

Fordonia lencobalia, On saltwater association, **Neill (2)**.

Gastropyxis smaragdina, From the Ivory Coast, **Condamin**.

Geodipsas, Of Madagascar, key, etc., *infralineata* (head fig.), *heimi*, *boulen-geri*, Of Africa, *depressiceps*, *procterpe*, *vauerecegae*, **Guibé (1)**.—*G. depressiceps depressiceps*, From N. Kivu, Belgian Congo, **Laurent**.

*Geophis championi**; *championi**; *brachycephalus*, *godmani*, *hoffmani*, *status doubtful, Of Panama, **Smith, H. M. (2)**.—*G. semiannulatus*, Of Gomez, Farias Region, Tamaulipas, biogeography, **Martin, P. S.**

Gerardia, On saltwater association, **Neill (2)**.

Glypholycus Gthr., 1894 is a synonym of *Lycodonomorphus*, **Loveridge**.

Gonionotophis brussauxi prigoginei, From Ituri, Belgian Congo, **Laurent**.

Gonyophis margaritatus, From Asahan, Malacca, **Batchelor**.

Gonyosoma, Taxonomic study and relationship with *Elaphe*; species referred to genus, *oxycephalum* (including *janseni*, *enganensis*), figs., **Dowling (2)**.

Grayia smythi, From Senegal, **Condamin**.—From Portuguese Guinea, **Manações (2)**.

Haldea, On status between this and *Virginia*; the latter is valid, **Zillig**.—*H. striatula*, Of Mississippi (Panhandle Counties), **Brode & Allison**.—On reproduction, **Carpenter (1)**.—and *valeriae elegans*, From Mississippi, **Cliburn**.—*H. striatula*, *valeriae*, Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling (1)**.—*H. valeriae*, Records from Delaware, Sussex and New Castle counties, **Conant (2)**.—On movement range, **Fitch (2)**.—*H. v. valeriae*, Of Piedmont, Delmarva, **Reed (2)**.—*H. v. pulchra*, On Maryland specimens, photographs, **Cooper (3)**.

Hapsidophrys lineatus, From the Ivory Coast, **Condamin**.

Helicops, On saltwater association, **Neill** (2).—*H. carinicauda*, Of Brazil, separated on pattern and distribution, *c. carinicauda* (Wied 1825) and *c. infrataeniata* (Jan., 1865), **Lema** (2).—*H. c. infrataeniata*, From Rio Grande do Sul, bicephalic specimen, plates, **Lema** (2).

Helophis schoutedeni, From Bumba, Belgian Congo, **Laurent**.

Hemirhagerrhis n. nototaenia, Of N. Rhodesia, photo., **Vesey-Fitzgerald** (1).

Herpetaethiops Gthr. 1866 is a synonym of *Philothamnus*, **Loveridge**.

Herpetodryas fuscus Boul. Cat. *Coluber spixii* Hallowell; *C. pickeringii* Hallowell are removed from synonymy to synonymy of *Chironius carinatus* Linn., **Roze** (1).

Herpeton, see under *Erpeton*.

[*Heterodon*], Of Michigan, feeding on frogs, **Wegner, W.**—*Heterodon*, Remains in New Paris sink holes, Pennsylvania, **Guilday & Bender**.—*H. platyrhinos*, Of Kansas, **Lyon Co., Clarke, Breukelman & Andrews**.—Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling** (1).—Of S. Florida, **Duellman & Schwartz**.—On saltwater association, **Neill** (2).—*H. p. platyrhinos*, Of Long Point, Ontario, **Adams & Clark**.—On reproduction, **Carpenter** (1).—On feeding habits, including toads and resistance to their poison, **Huheey**.—Dichocephaly and polyembryony, **Meyer**.—and *simus*, From Mississippi, **Cliburn**.—*H. platyrhinos, nasicus, simus*, Umbilical scar position and sexual dimorphism, **Edgren**.

Heteroliodon torquatus, Of Madagascar, **Guibé** (1).

Hipistis hydrinus, On saltwater association, **Neill** (2).

Homalopsis buccata, Of Thailand, photograph, **Taylor & Elbel**.

Hydrodynastes Fitz., Is revived for *Coluber bicinctus* Hermann 1804 = *Dugandia bicinctus* (Herm.)—**Hose**.

Hydromorphus clarki, dunni, Of Panama, **Smith, H. M.** (2).

Hypsigena torquata, Distribution in Colima and W. Mexico, **Duellman** (3).—

H. t. torquata, Taylor 1954 is a synonym of *Leptoderia s. ornata*, **Duellman** (1).—From Jalisco, Mexico, **Smith, H. M. & Grant** (5).—*H. t. baueri*, subsp. nov., type locality: E. coast of Cedros Id., Baja California, Amer. Mus. Novit. No. 1895, 1958, p. 12, figs., **Zweifel** (1).—*H. t. loreala*, Of Glen Canyon, Utah, **Tanner** (4).—*H. t. ochrorhyncha*, From vicinity of Pinacate larva cap, N.W. Sonora, Mexico, **Smith, P. W. & Hensley** (2).

Imantodes cenchoa, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*I. c. cenchoa, c. semifasciatus, gemmistratus, inornatus*, Of Panama, **Smith, H. M.** (2).—*I. c. leucomelas*, From Guatemala, Peten, Tikal; Uaxactún, **Stuart**.—*I. gemmistratus oliveri, gracillimus*, Distribution in Colima; *latistratus*, distribution in Colima and W. Mexico, **Duellman** (3).—*I. gracillimus*, First record from nr. La Salada, Colima, **Duellman** (3).—*I. latistratus*, From Jalisco, Mexico, **Smith, H. M. & Grant** (5).

Ithycyphus, Of Madagascar, key, etc., *goudoti* (head fig.), *miniatus* (head fig.), **Guibé** (1).

Lampropeltis calligaster, Of Kansas, **Lyon Co., Clarke, Breukelman & Andrews**.—Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling** (1).—On movement range, **Fitch** (2).—*L. c. calligaster*, On reproduction, **Carpenter** (1).—*L. c. rhombomaculata*, From Mississippi, **Cliburn**.—On range limits, Maryland, **Reed** (1).

Lampropeltis doliata, Of Kansas **Lyon Co., Clarke, Breukelman & Andrews**.—Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling** (1).—On movement range, **Fitch** (2).—*L. d. doliata*, From Mississippi, **Cliburn**.—Of S. Florida, **Duellman & Schwartz**.—*L. d. amaura*, 20 years, 7 mths., *d. triangulum*, 12 years, 8 mths. (still alive), in captivity, **Shaw** (1).—*L. d. amaura*, Recorded 20 years, 7 months in captivity, probably over 21 years old, **Meade**.—*L. d. nelsoni*, Distribution in Colima and W. Mexico, **Duellman** (3).—*L. d. polyzona*, From Vera Cruz, **Fugler & Dixon**.—*L. d. temporalis*, On range limits, New Jersey; Maryland, Delmarva, **Reed** (1).—*L. d. triangulum*, Of Long Point, Ontario, **Adams & Clark**.—A seven inch specimen from

Winton Cnty., Ohio, **Adler (5)**.—Zoogeography of E. Canada, **Bleakney (1)**.—Of Piedmont, Delmarva, **Reed (2)**.

Lampropeltis elapsoides, Of Mississippi (Panhandle Counties), **Brode & Allison**.

Lampropeltis getulus, Of Kansas, Lyon Co., **Clarke, Breukelman & Andrews**.—On geographic variation in plasma pattern, **Dessauer & Fox**.—Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling (1)**.—*L. g. getulus*, Blood chemistry, **Hutton**.—On range limits, Maryland; New Jersey, Delaware, **Reed (1)**.—Of Piedmont, Delmarva, **Reed (2)**.—10 years, 9 mths., *g. holbrooki*, 14 years, 8 mths., in captivity, still alive, **Shaw (1)**.—*L. g. brooksi*, is a synonym of *L. g. florida*, **Duellman & Schwartz**.—*L. g. californiae*, Of Glen Canyon, Utah, **Tanner (4)**.—From Utah, **Tanner (5)**.—*L. g. floridana*, Of S. Florida, **Duellman & Schwartz**.—*g. holbrooki*, On saltwater association, **Neill (2)**.—*L. g. holbrooki*, On reproduction, **Carpenter (1)**.—From Mississippi, **Cliburn**.—*L. g. niger*, Of Ohio, record lgth., 42 inches, **Adler (6)**.

Lampropeltis triangulum gaigeae, *triangulum micropholis*, Of Panama, **Smith, H. M. (2)**.

Langaha, Of Madagascar, key etc., *nasuta* (head figs.), *alluaudi* (head figs.), **Guibé (1)**.

Leimadophis epinphalis epinphalus, *e. juvenalis*, Of Panama, **Smith, H. M. (2)**.—*L. e. epinphalus*, From Panama, **Smith, H. M. & Grant (6)**.

Lejosophis Jan, is revived for *Cyclagras* Cope, which is untenable, **Hose**.

Leptodeira, A monograph; species include, *annulata*; *a. cussiliris* subsp. nov., type loc. Rancho Poro Rio, 6 kilom. S. of Tehuantepec, Oaxaca, Mexico, [p. 31, figs.], *a. rhombifera* (figs.), *a. ashmeadi* (figs.), *a. pulchriceps*, subsp. nov., type loc. Bodoquena, Mato Grosso, Brazil [p. 51, figs.]; *maculata* (figs.); *bakeri* (figs.); *frenata* (figs.); *f. malleisi* (figs.), *f. yucatanensis*, (figs.); *septentrionalis* (figs.), *s. polysticta* (figs.), *s. ornata* (figs.), *s. larcorum* (figs.); *splendida* (figs.), *s. ephippiata* (figs.), *s. bressoni* (figs.); *nigrofasciata* (figs.), *latifasciata* (figs.); *punctata* (figs.); *?discolor*, Bull. Amer. Mus. N.H. 114, 1, 1958, **Duellman (1)**.—*L. annulata cussiliris*, On amphibians as food, **Turner**.—

L. a. polysticta, From Tikal, Peten, Guatemala, **Stuart**.—and *bressoni*, *maculata*, Distribution in Colima and the last two species also of W. Mexico, **Duellman (3)**.—*L. a. rhombifera*, *septentrionalis ornata*, Of Panama, **Smith, H. M. (2)**.—*L. a. rhombifera*, From El Salvador, **Uzzell & Starrett**.—*L. a. annulata* × *ashmeadii*, Of Auyantepui, Bolivar, Venezuela, **Roze (2)**.—× *ashmeadii*, of Venezuela, **Roze (3)**.—*L. discolor*, On systematic status, is now referred to *Tantalophis* (Xenodontinae), gen. nov., Publ. Mus. nat. Hist. Univ. Kansas, 11, 1, 1958, p. 3, figs., **Duellman (4)**.—*L. septentrionalis septentrionalis*, *maculata*, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*L. s. polysticta*, From El Salvador, **Uzzell & Starrett**.

Leptophis, is now for *Thalerophis* of Oliver, 1948, **Opinion 524**.—*L. ahaetulla occidentalis*, *depressirostris*, *riveti*, Of Panama, **Smith, H. M. (2)**.—*L. diplotropis*, Distribution in Colima and W. Mexico, **Duellman (3)**.—*L. mexicanus*, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*L. m. mexicanus*, On saltwater association, **Neill (2)**.—From Uxactún, Peten, Guatemala, **Stuart**.—From El Salvador, **Uzzell & Starrett**.

Limnophis bicolor, From N. Rhodesia, **Vesey-Fitzgerald (1)**.

Liodytes alleni, Of S. Florida, **Duellman & Schwartz**.—On saltwater association, in Florida, **Neill (2)**.—*L. alleni lineapiatus*, is invalid = *alleni*, **Duellman & Schwartz**.

Lioheterodon, Of Madagascar, key etc., *madagascariensis* (head figd.), *modestus*, *geanyi* (head fig.), **Guibé (1)**.

Liophidium, Of Madagascar, key to species, etc., *vaillantii*, (figs.), *trilineatum*, *rhodogaster* (figs.), *torquatus* (figs.), *mayottensis* **Guibé (1)**.

Liophis ingeri, sp. nov. type loc., Chimantá Tepui, Estado Bolivar, Venezuela, Acta biol. venezuel. 2 25 1958, p. 302, fig., **Roze (3)**.—*L. melanotus*, in Blgr. Cat. 2 p. 134; *Coluber vittatus* Hallowell is removed from synonymy to synonymy of *Leimadophis melanotus* (Shaw), **Roze (1)**.—*L. miliaris semiaureus*, Bicephalie example from Brazil, figs., **Lema (1)**.—*L. trebbauvi*, sp. nov.,

type loc.: Auyantepui, Bolivar State, Venezuela, *Acta biol. venezuel.* 2, 22, 1958, p. 269, fig., **Roze** (2).

Liopholidophis, Of Madagascar, key to species, etc., *lateralis* (head fig.), *pseudolateralis* (head fig.), *piniguis*, *sexlineatus*, *grandidieri*, **Guibé** (1).

Lycodon aulicus, From Bihar, **Acharji**.—From Asahan, Malacca, **Batchelor**.—Introduced into Madagascar, **Guibé** (1).—*L. a. capucinus*, *subcinctus* (1st record), From Flores, **Hoesel**.—*L. a. capucinus*, Of Malé, Maldives, **Phillips**.—*L. capucinus*, Of Thailand, **Taylor & Elbel**.—*L. laoensis*, On second record from Kedah, figs., **Boo-Liat** (3).

Lycodonomorphus, **Fitzinger** 1843, Revision of genus, key to species, geographic range, natural history notes, etc., synonymy includes, *Lycodontomorphus* **Agassiz**, *Neusterophis* **Gthr.**, *Ablabophis* **Blgr.**, *Glypholycus* **Gthr.**, *Nerophidion* **Werner**; species are: *bicolor*, *subtaeniatus subtaeniatus*, s. *upembae*; *rufulus rufulus*, r. *leleupi*, r. *mlanjensis*, r. *whyti*, *laevissimus*, **Loveridge**.—*L. bicolor*, From N. Rhodesia, photo., **Vesey-Fitzgerald** (1).—From L. Tanganyika, **Vesey-Fitzgerald** (2).—*L. rufulus rufulus*, From Pungwe R. causeway, Inyanga Dist., S. Rhodesia, **Fitzsimons** (2).—*L. subtaeniatus subtaeniatus*, From Leopold Lake dist., Belgian Congo, **Laurent**.

Lycodontomorphus **Agassiz** 1848 is a synonym of *Lycodonomorphus*, **Loveridge**.

Lycodryas, Of Madagascar, key, etc., *betsileanus* (head figs.), *variabilis* (head fig.), *arctifasciatus* (under surface head fig.), *maculatus* (head fig.), *sancti-johannis* (head, figs.), *guentheri* (head fig.), *inornatus*, *gaimardi gaimardi*, g. *granuliceps*, **Guibé** (1).

Lycognathophis seychellensis, Not in Madagascar, **Guibé** (1).

Lycophidion capense, Of N. Rhodesia, photo., **Vesey-Fitzgerald** (1).—*L. irroratum*, From Uele, Belgian Congo, **Laurent**.—and *semicinctum*, From Portuguese Guinea, **Manacas** (2).—*L. semicinctum*, From Senegal, **Condamin**.

Lygophis lineatus, Of Panama, **Smith**, **H. M.** (2).—*L. l. lineatus*, Of Auyantepui, Bolivar, Venezuela, **Roze** (2).

Lytorhynchus diadema, From Libya, natural history notes, **Kramer & Schnurrenberger**.

Macrelaps microlepidotus, On bite symptoms, **Fitzsimons**, **D. C. & Smith**.

Macropisthodon rhodomelas, *flaviceps*, From Asahan, Malacca, **Batchelor**.—*M. rudis*, New record for Chekiana, China, head fig., **Hu, Hwang, Ho & Wei**.

Macroprotodon cucullatus, Of the Balearic Ids., head fig., **Colom** (1).—From Libya, natural history notes, **Kramer & Schnurrenberger**.—From Spain, Andalucia, **Mountfort**.—On salt-water association, **Neill** (2).

Madagascarophis colubrina, head figs., **Guibé** (1).

Malpolon monspessulana, From Cota Doñana, Spain, **Mountfort**.—On salt-water association, **Neill** (2).—*M. m. monspessulanus*, From Morocco, Ifrane region, **Bons**.—From Banyuls, **Duguy & Philippe-Knoepfler**.—*M. m. insignitus*, *moilensis*, From Libya, **Kramer & Schnurrenberger**.

Manolepis putnami, Distribution in Colima, **Duellman** (3).

Masticophis anthony, Saltwater association, food, **Neill** (2).—*M. bilineatus bilineatus*, *flagellum lineatus*, Distribution in Colima and W. Mexico, **Duellman** (3).—†*M. flagellum*, Of Nevada Pleistocene, **Brattstrom** (3).—Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling** (1).—*M. f. flagellum*, On reproduction and feeding; f. *testaceus*, on feeding, **Carpenter** (1).—*M. f. flagellum*, From Mississippi, **Cliburn**.—Of S. Florida, **Duellman & Schwartz**.—*M. f. testaceus*, *taeniatus*, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*M. mentavarius centralis*, Of Panama, **Smith**, **H. M.** (2).—*M. t. taeniatus*, Of Glen Canyon, Utah, **Tanner** (4).

[*Mehelya*], specimen disgorging a *Dispholidus typhus*, **Wilson**.—*M. capensis*, Of N. Rhodesia, **Vesey-Fitzgerald** (1).—*M. poensis*, From the Ivory Coast, **Condamin**.—From Liberia, **Taylor & Weyer**.

Meizodon coronatus, From Uele, Belgian Congo, **Laurent**.—*M. semiornatus*, Of N. Rhodesia, **Vesey-Fitzgerald** (1).

Micropisthodon ochraceus, Of Madagascar, figs., **Guibé** (1).

Mimophis mahafalensis, Of Madagascar, head fig., **Guibé** (1).

Miodon gabonensis schmidtii, From Ituri; *robustus*, from Equateur; *collaris collaris*, from Rutshuru, Belgian Congo, **Laurent**.

Natriciteres Loveridge 1953, Revision of genus, key to species, geographic range, natural history notes, etc., *olivacea olivacea*, *o. uluguruensis*, *variegata*, *fuliginoides*, **Loveridge**.—*N. o. olivacea*, Of N. Rhodesia, **Vesey-Fitzgerald** (1).

Natrix, On saltwater association, **Neill** (2).

Natrix anoscopus anoscopus, From the Ivory Coast, **Condamin**.—From Liberia, **Taylor & Weyer**.

Natrix chrysarga, From Asahan, Malacca, **Batchelor**.

Natrix cyclopion, *c. floridana*, On saltwater association, **Neill** (2).—*N. c. cyclopion*, From Mississippi, **Cliburn**.—From Illinois, Union Cnty., **Keiser**.—*N. c. floridana*, Of S. Florida, **Duellman & Schwartz**.

Natrix erythrogaster, Of Kansas, Lyon Co., **Clarke, Breukelman & Andrews**.—Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling** (1).—*N. e. erythrogaster*, On range limits, Maryland, **Reed** (1).—*N. e. flavigaster*, From Mississippi, **Cliburn**.—*N. e. transversa*, On reproduction and feeding, **Carpenter** (1).

Natrix firestonei, sp. nov., type locality: Harbel, Liberia; Univ. Kans. sci. Bull. 38 2 1958, p. 1210, **Taylor & Weyer**.

Natrix grahami, Of Kansas, Lyon Co., **Clarke, Breukelman & Andrews**.—From Mississippi, **Cliburn**.—Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling** (1).—On saltwater association, **Neill** (2).

Natrix kirtlandii, New county record, Licking, Ohio, **Adler** (5).

Natrix maculata, From Asahan, Malacca, **Batchelor**.

Natrix maura, From Morocco, Ifrane region, **Bons**.—From Banyuls, **Dugy & Philippe-Knoepffler**.—From Cota Doñ-

ana, Spain, **Mountfort**.—On saltwater association, **Neill** (2).

Natrix natrix, Note on food of British species, **Appleby** (1).—Remarks on record sizes of British specimens, **Appleby** (2).—Microscopic study of nervous system, **Bargmann, Knoop & Thiel**.—Of the Balearic Ids., head fig., **Colom** (1).—In Carpathian streams, Hungary, **Dudich**.—(†) On origin in Roumania, **Stugren**.—Of E. France, general, head figd., **Germaine**.—Of Bamberg, Bavaria, **Heilingbrunner**.—Biochemistry of venom, **Kaiser & Michl**.—On behaviour, **Klemm, W.**—On Saltwater association, **Neill** (2).—On localities in Morocco, map, **Pasteur & Bons**.—Coloration of teeth through iron oxide, **Schmidt, W. J.**—Of Derrford Fen, Cambridgeshire, **Sharp**.—General work on German fauna, col. plate, etc., **Wermuth** (1).—Recorded vol. 94 (1957) erroneously from Czechoslovakia, should read as, Slovenia, Yugoslavia, **Brelih, S.**

Natrix natrix natrix, Of Germany, general work, photographs, **Frommhold**.—Of Transcaucasica, **Rotter** (1).—Of Hungary, Pilis, photograph, some nature notes, **Szabó**.

Natrix natrix astreptophora, From Morocco, Ifrane region, first record, photographs, **Bons**.—From Spain, Andalucia, fig., **Mountfort**.

Natrix natrix helvetica, Mainly on feeding, **Broadley** (5).—Of Germany, general work, photographs, **Frommhold**.—From Puschlavs, Switzerland, **Kramer** (1).—Photograph, notes on specimen in a vivarium of Nat. Hist. Mus. Enschede, **Roding** (1).—Of Twente, Holland, **Roding** (2).

Natrix natrix var. *persa*, From Tisza, Hungary, **Marián**.—Of Transcaucasica, **Rotter** (1).

Natrix natrix scutata, Of Transcaucasica, **Rotter** (1).

Natrix piscator, From Bihar, **Acharji**.—On the anatomy, **Bergman** (1).—Plasma proteins, **Nair**.—The hyoid and associated structures, figs., **Sondhi**.—*N. p. flavipunctata*, Of Thailand, **Taylor & Elbel**.

Natrix pryeri, Of Amami Group, Loo Choo Ids., **Koba**.

Natrix rigida, From Mississippi, **Cliburn**.

Natrix rhombifera, Of Kansas, Lyon Co., **Clarke, Breukelman & Andrews**.—Of Arkansas in geographic relations of Ozarkian reptiles, **Dowling (1)**.—Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—From Las Rusias, Coahuila, Mexico, **Zweifel (2)**.—*N. r. rhombifera*, On reproduction and feeding, **Carpenter (1)**.

Natrix rigida, On saltwater association in St. Johns R., Duval Cnty., Florida, **Neill (2)**.

Natrix septemvittata, New County records, Pickaway, Madison, Ohio, **Adler (5)**.—From Mississippi, not typical, **Cliburn**.—Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling (1)**.—Of Michigan, new county record Monroe, **Hahn**.—From Medin Cnty., Ohio, **McMahon**.—Of Piedmont, Delmarva, **Reed (2)**.

Natrix sipedon, Natural selection on islands in Lake Erie, **Camin & Ehrlich**.—Of Kansas, Lyon Co., **Clarke, Breukelman & Andrews**.—Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling (1)**.—On movement range, **Fitch (2)**.—*N. s. sipedon*, Of Long Point, Ontario, **Adams & Clark**.—Zoogeography of E. Canada, **Bleakney (1)**.—Variation in a litter from Ottawa, **Bleakney (3)**.—On feeding habits, **Brown, E. E.**—From Licking Cnty., Ohio, **Dennis (2)**.—Of Madison Cnty., Ohio, **Dennis (4)**.—Of Michigan, Jackson Cnty., new record, **Hahn**.—Erythristic specimen from Geauga Cnty., Ohio, **Wood**.—*N. s. sipedon*, *s. pleuralis*, *s. fasciatus*, *s. confluens*, *s. clarki*, On geographic variation in plasma pattern, **Dessauer & Fox**.—*N. s. compressicauda*, *s. pictiventris*, Of S. Florida, **Duellman & Schwartz**.—*N. s. compressicauda*, On salt glands, **Schmidt-Nielsen & Fange**.—*N. s. confluens*, On feeding, **Carpenter (1)**.—*N. s. confluens*, *s. clarki*, Experiments on water relationships, **Pettus**.—*N. s. pictiventris*, Blood chemistry, **Hutton**.—*N. s. pleuralis*, Record size, a female 51½ inches, from Jackson Co., Illinois, **Rossman**.—*N. s. pleuralis*, *s. fasciata*, *s. confluens*, *s. clarki*, From Mississippi, **Cliburn**.—*N. s. taeniata*, *s. pictiventris*, *s. compressicauda*, *s. clarki*, *s. engelsi*, On saltwater associations, **Neill (2)**.

Natrix suriki, New record for Chekiang, China, head figd., **Hu, Hwang, Ho & Wei**.

Natrix stolata, From Bihar, **Acharji**.

Natrix taxispilota, Of S. Florida, **Duellman & Schwartz**.—*N. t. taxispilota*, *t. rhombifera*, From Mississippi, **Cliburn**.—On saltwater association, **Neill (2)**.

Natrix tessellata, Is not to be included in fauna of Poland, **Fudakowski**.—On behaviour, **Klemm, W.**—In captivity, **Steward**.—General work on German fauna, col. plate, etc., **Wermuth (1)**.—(†) On origin in Roumania, **Stugren**.—*N. t. tessellata*, Of Hungary, **Pilis**, some nature notes, **Szabó**.—Recorded vol. 94 (1957) erroneously as from Czechoslovakia, should read as Slovenia, Yugoslavia, **Brelih, S.**

Natrix tigrina, Effect of nuchal gland substance on blood pressure in rabbits and toads, **Kitazume**.—*N. t. tigrina*, From Japan, **Alexander & Diener**.—Embryological study on nuchal poison gland, figs., plates, **Fukada (1)**.—On seasonal prevalence, Kyoto, Japan, **Fukada (2)**.

Natrix trianguligera, From Asahan, Malacca, **Batchelor**.

Natrix valida, *v. celsa*, On saltwater association, **Neill (2)**.—*N. v. valida* × *v. isabellae* Of N. Jalisco, **Smith, H. M. & Grant (5)**.—*N. v. isabelleae*, Distribution in Colima, **Duellman (3)**.

Natrix v. vibakari, On seasonal prevalence in Kyoto, Japan, **Fukada (2)**.

[*Natrix viperina*], Of Valais, Switzerland, **Mariétan**.—Of the Balearic Ids., head fig., **Colom (1)**.—Of E. France, general, **Germaine**.

Neopareas bicolor, In captivity, photograph, **Sievers**.

Nerophidion, Werner 1924 is a synonym of *Lycodonomorphus*, **Loveridge**.

Neusterophis Gthr., 1863 is a synonym of *Lycodonomorphus*, **Loveridge**.—*N. variegatus*, From the Ivory Coast, **Condamin**.—From Liberia, **Taylor & Weyer**.

Ninia diademata nioi, From Uaxactún, *sebae morleyi*, from Tikal, Peten, Guatemala, **Stuart**.—*N. hudsoni*, From Ecuador, range extended, note on types and its description; *atrata*, notice of petition to Zool. Nom. Int.

Comm. for retention of name, **Peters, J. A.**—*N. lansbergi*, *maculata maculata*, *psephota*, Of Panama, **Smith, H. M.** (2).—*N. sebae sebae*, From El Salvador, **Uzzell & Starrett**.

Nothopsis rugosus, Of Panama, **Smith, H. M.** (2).

Oligodon, Of Thailand, *cyclurus* (photograph), *cinereus* (photograph), *quadrilineatus* (photograph), **Taylor & Elbel**.—*O. cyclurus*, From Bihar, **Acharji**.—*O. octolineatus*; *purpurascens*; *signatus* (4th record), From Asahan, Malacca, **Batchelor**.—*O. ornatus*, *musyi*, New record for Chekiang, China, body color pattern fig., **Hu, Hwang, Ho & Wei**.

Oligolepis Boul. 1895 is a synonym of *Philothamnus*, **Loveridge**.

Ophedrys aestivus, On reproduction and feeding, **Carpenter** (1).—From Mississippi, **Cliburn**.—Of Arkansas, in geographic relations of Ozarkian reptiles, **Dowling** (1).—Of S. Florida, **Duellman & Schwartz**.—*O. a. aestivus*, Of Ohio, eggs, young $7\frac{1}{8}$ inches, **Dennis** (4).—On saltwater association, **Neill** (2).—*O. semicarinata*, Of Amami Group, Loo Choo Ids., **Koba**.—*O. vernalis*, First record for Cass Cnty., Minnesota, **Brattstrom** (2).—*O. v. vernalis*, From Ohio, new county, **Morrow**, record, **Adler** (6).—Zoogeography of E. Canada, **Bleakney** (1).—Of Richard Cnty., Ohio, **Dennis** (4).—Of Piedmont, **Delmarva**, **Reed** (2).—In Virginia, Blue Ridge Mtns., range extended south 120 miles, **Witt**.—*O. v. blanchardi*, From Utah, **Tanner**, (5).

Opisthotropis latouchii, New record for Chekiang, China, head fig., **Hu, Hwang, Ho & Wei**.

Oxybelis aeneus, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—On saltwater association, **Neill** (2).—*O. a. aeneus*, Of Auyantepui, Bolivar, Venezuela, **Roze** (2).—Of Panama, **Smith, H. M. & Grant** (6).—From Guatemala, Peten, Tikal; Uaxactun, **Stuart**.—and *brevirostris*, *fulgidus*, Of Panama, **Smith, H. M.** (2).—*O. a. auratus*, Distribution in Colima and W. Mexico, **Duellman** (3).

Oxyrhopus petola aequifasciatus, From Tikal, Peten, Guatemala, **Stuart**.—*O. p. sebae*, Of Panama, **Smith, H. M.** (2).

Pararhadinea melanogaster, Of Madagascar, **Guibé** (1).

Parahelicops boonsongi, sp. nov., type loc.: Phu Nam Lang (mt.) 1,780 m., Ban Khok (subvillage), Na Phung (village), Dan Sai (dist.), Loei (prov.), Thailand, Univ. Kans. sci. Bull. 38 2 1958 p. 1156, photograph, **Taylor & Elbel**.

Pareas laevis, General note, head fig., **Adler** (1).—*P. malaccanus*, From Asahan, Malacca, **Batchelor**.—*P. macularius*, (photograph), *carinatus* (photograph), Of Thailand, **Taylor & Elbel**.

Philodryas schotti, Histochemical study of pigment in epithelium of kidney, **Sasso, Castro & Pacheco**.—*P. taeniatus* Hensel, On systematic position, is referred to *Ditaxodon*, gen. nov., **Hoge**.

Philothamnus Smith, 1840, Revision of genus, key to species, geographic range, natural history notes, etc., Synonym includes, *Chlorophis* Hallows, 1857, *Herpetathiops* Gthr., 1866, *Chlorophis* Theobald, 1868, *Oligolepis* Blgr., 1895; species are: *macrops*, *heterodermus heterodermus*, *h. carinatus*, *h. ruandae*, *hoplogaster*, *irregularis irregularis*, *i. battersbyi*, *i. ornatus*, *natalensis*, *heterolepidotus*, *semivariiegatus*, *semivariiegatus*, *s. nitidus*, *s. dorsalis*, *s. girardi*, *s. thomensis*, **Loveridge**.—Of Rhodesia and Nyasaland, key to species, *s. semivariiegatus*, *hoplogaster*, *i. irregularis*, *ornatus*, *heterolepidotus*, **Broadley** (8).—Of N. Rhodesia, *s. semivariiegatus*, (photo), *hoplogaster*, *irregularis* (photo.), **Vesey-Fitzgerald** (1).—*C. heterodermis*, From Liberia, **Taylor & Weyer**.—*P. irregularis*, On bird eating, **Pitman**.—*P. i. irregularis*, From Senegal, **Condamin**.—*P. semivariiegata*, On wall climbing abilities, **Ionides**.—*P. s. semivariiegatus*, From Ituri, Belgian Congo, **Laurent**.—*Chlorophis* Hallows, 1857 and Theobald 1868 are synonyms of *Philothamnus*, **Loveridge**.

Phimophis guianensis, Of Panama **Smith, H. M.** (2).

Phyllorhynchus browni browni, *decurtatus perkinsi*, From vicinity of Pinacate larva cap, N.W. Sonora, Mexico, **Smith, P. W. & Hensley** (2).—*P. d. decurtatus*, *arenicola*, On saltwater association, **Neill** (2).

Pituophis catenifer, Of Nevada Pleistocene, †Brattstrom (3).—Of Kansas, Lyon Co., Clarke, Breukelman & Andrews.—Of Arkansas, in geographic relations of Ozarkian reptiles, Dowling (1).—On movement range, Fitch (2).—*P. c. catenifer*, Second albino record from California, photograph, Leviton & Kessel.—*P. c. annectens* (albino), 17 years 7 months, and 16 years 5 mths.; *c. deserticola*, 10 years, 8 mths., (still alive), in captivity, Shaw (1).—*P. c. deserticola*, From Baker Cnty., Oregon, Ferguson, Payne & Storm.—*P. c. sayi*, On reproduction, Carpenter (1).—Drought rates recorded in growth zones of bony tissues, Peabody.

Pituophis melanoleucus lodingi, From Mississippi, Cliburn.—*P. m. melanoleucus*, On range limit, Maryland, Reed (1).—17 years, 5 mths., *m. mugitus*, 11 years, 11 mths. in captivity, still alive, Shaw (1).—*P. m. catenifer*, Longitudinal striping as a pattern modification, figs., Riemer.—*P. m. mugitus*, Of S. Florida, Duellman & Schwartz.

Pituophis sayi, Feeding on woodpecker, photograph, Olsen, O. W.

Pliocercus elapoides, Of Gomez Farias Region, Tamaulipas, biogeography, Martin, P. S.—*P. e. laticollaris*, From Veracruz, Fugler & Dixon.—*P. euryzonus dimidiatus*, *e. euryzonus*, Of Panama, Smith, H. M. (2).

Prosymna Gray, 1849, Revision of genus, key to species, geographic range, natural history notes, etc., synonymy includes: *Temnorhynchus* A. Smith (not Hope) 1849, *Ligonirostria* Cope 1863, *Astherophis* Blgr. 1896, *Pseudoprosymna* Lindholm 1902, *Stenorrhaddium* Werner, 1909; species are: *sundevallii* *sundevallii*, *s. bivittata*, *lineata*, *greigerti*, *somalia*, *meleagris meleagris*, *m. laurenti* sub. sp. nov., Type loc.: Mongalla, Equatoria Prov., Sudan, p. 141). Paratypes various loc.: *frontalis*, *angolensis*, *ambigua ambigua*, *a. vocagii*, *a. uruadiensis*, *a. brevis*, *a. ruspoli*, *a. ornaticissima*, *a. stuhlmanni*, *a. transvaalensis*, *jani*, *pitmani*, Bull. Mus. comp. Zool. Harvd. 119 (1) 1958, Loveridge.—*P. ambigua stuhlmanni*, Of N. Rhodesia, photo., Vesey-Fitzgerald (1).

Psammodynastes pulverulentus, From Flores, Hoesel.—Of Thailand, Taylor & Elbel.

Psammophis, Of Egypt, *s. sibilans*, *schokari*, *aegyptius*, sp. nov., (p. 194, col. pattern fig.) type loc. Siwa, Siwa Oasis, Western Desert Governorate, Egypt, Fieldiana Zool. 39 (18) 1958, Marx (2).

Psammophis angolensis, Of N. Rhodesia, photo, Vesey-Fitzgerald (1).

Psammophis crucifer, From Nyamagwiwa, 5,000–6,000 ft., Inyanga Dist., S. Rhodesia, Fitzsimons (2).—Probably in Kalahari Gemsbok National Park, Fitzsimons & Brain (4).

Psammophis elegans, From Portuguese Guinea, Manaças (2).

Psammophis notostictus, Of Kalahari Gemsbok National Park, Fitzsimons & Brain (4).

Psammophis schokari, From Libya, natural history notes, Kramer & Schnurrenberger.—On fondness for water habitat, photograph, Schnurrenberger (2).

Psammophis sibilans, On bird eating, Pitman.—*P. s. sibilans*, From Portuguese Guinea, Manaças, (2).—Of N. Rhodesia, photo., Vesey-Fitzgerald (1).—Recorded disgorging a *Dendroaspis p. polylepis*, Rider.—From Senegal, and *s. phillipsii*, from the Ivory Coast, Condamin.—*P. s. phillipsii*, From Liberia, Taylor & Weyer.—*P. s. trinasalis*, Of Kalahari Gemsbok National Park, Fitzsimons & Brain (4).

Psammophis subtaeniatus, On bird eating, Pitman.—*Psammophis subtaeniatus sudanensis*, Of N. Rhodesia, photo., Vesey-Fitzgerald (1).

Psammophylax tritaeniatus vanoyei, From Ituri, Belgian Congo, Laurent.—*P. (Trimerorhinus) tritaeniatus*, On bird eating, Pitman.—Of N. Rhodesia, photo., Vesey-Fitzgerald (1).

Pseudaspis cana, Of Kalahari Gemsbok National Park, Fitzsimons & Brain (4).—On bird and egg eating, Pitman.—Of N. Rhodesia, photo., Vesey-Fitzgerald (1).

Pseudoboa newwiedi, Of Panama, Smith, H. M. (2).

Pseudoficimia frontalis, Distribution in Colima and W. Mexico, Duellman (3).

Pseudorhabdion longiceps, From Asahan, Malacca, **Batchelor**.

Pseudoxenodon bambusicola, New record for Chekiang, China, head fig., **Hu, Hwang, Ho & Wei**.—*P. macrops macrops*, Of Thailand, photograph, **Taylor & Elbel**.

Pseudoxyrhopus, Of Madagascar, key, etc., *occipitalis*, *imerinae*, *ambreensis*, *heterurus*, *quinquelineatus*, *dubius*, *microps tritaeniatus* (heads of last 3 figd.), **Guibé (1)**.

Pseudoleptodeira latifasciata, First record from Colima, nr. La Salada and distribution in W. Mexico, **Duellman (3)**.

Pseustes poecilonotus poecilonotus, From Tikal, Peten, Guatemala, **Stuart**.—*P. p. shropshirei*, Of Panama, **Smith, H. M. (2)**.—From Panama, **Smith, H. M. & Grant (6)**.

Ptyas korros, From Asahan, Malacca, **Batchelor**.—*P. korros, mucosus*, Of Thailand, **Taylor & Elbel**.—*P. mucosus*, From Bihar, **Acharji**.—On double-headed specimen of Ceylon, **Deraniyagala (3)**.—Plasma proteins, **Nair**.—10 years, 7 mths. in captivity, **Shaw (1)**.—[*P. mucosus*], On mating, **Morris**.—On courtship, **Sethna**.

Rabdion, Reinstated as generic name for species *forsteni* Dum. 1853; synonymies include, *Rabdion* Dum. 1853; *Rhabdion* Gthr., 1858; *Rhabdophidium* Boul. 1894; *Rabdion forsteni* Dum. 1853 (nom nud.); *R. forsteni* D. D. & B., 1854; *Rhabdion forsteni* Gthr. 1858; *Rhabdophidium forsteni* Boul. 1894; *Rhacophidium forsteni* Boettg., 1900, **Leviton**.

Rhabdophis, Of Thailand, *subminiata helleri*, *stolata* (photograph), *nigrocinata*, *chrysarga*, **Taylor & Elbel**.

Rhadinaea, Of Panama, *calligaster*, *decipiens decipiens*, *decorata decorata*, *d. ignita* (status dubius), *fulviceps*, *pachyura*, *persimilis*, *sargenti*, *serperastrae*, **Smith, H. M. (2)**.—*R. crassa*, Of Gomez Farias Region, Tamaulipas, biogeography, *crassa* is probably conspecific with *gaigeae*, **Martin, P. S.**—*R. flavilata*, Of Mississippi, (Panhandle Counties), **Brode & Allison**.—*R. fulviceps*, From Panama, **Smith, H. M. & Grant (6)**.—*R. godmani*, *montecristi* From El Salvador; note on colour

patterns in other species, **Uzzell & Starrett**.—*R. hesperia hesperoides*, Distribution in Colima and W. Mexico, **Duellman (3)**.

Rhamphophis a. acutus, oxyrhynchus rostratus, Of N. Rhodesia, **Vesey-Fitzgerald (1)**.—*R. multimaculatus*, Of Kalahari Gemsbok National Park, **Fitzsimons & Brain (4)**.—*R. oxyrhynchus*, From Senegal, **Condamin**.—*R. oxyrhynchus rostratus*, On bird eating, **Pitman**.

Rhinechis scalaris, Of the Balearic Ids., head fig., **Colom (1)**.

Rhinobothryum bovalli, Of Panama, **Smith, H. M. (2)**.

Rhinocheilus lecontei, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*R. l. lecontei*, 16 years, 1 mth., in captivity, still alive, **Shaw (1)**.—From vicinity of Pinacate larva cap, N.W. Sonora, Mexico, *anotoni clarus*, sensu **Smith** and *l. claeus*, sensu **Klauber**, are probably colour phases of a single population, **Smith, P. W. & Hensley (2)**.

Rhinostoma see under *Phimophis*.

Salvadora hexalepis hexalepis, From vicinity of Pinacate larva cap, N.W. Sonora, Mexico, **Smith, P. W. & Hensley (2)**.—*S. h. mojavnensis*, Of Glen Canyon, Utah, **Tanner (4)**.—*S. intermedia*, From Puebla, confirmation of *richardsi* as synonym of *intermedia*, **Fugler & Dixon**.—*S. lineata*, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*S. mexicana*. Distribution in Colima and W. Mexico, **Duellman (3)**.—On saltwater association, **Neill (2)**.

Scaphiodontophis, Note on validity of *nothus*, *cyclurus*, *albonuchalis*; only four C. American species recognized; *carpicinctus* is a synonym of *annulatus*; *venustissimus*; *annulatus*; *zeteki* and *z. nothus*, includes, *cyclurus*, *albonuchalis* in its synonymy, **Alvarez del Toro & Smith**.—*S. carpicinctus*, From Guatemala, Peten, Tikal; second recorded, **Stuart**.—*S. cyclurus*? Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*S. venustissimus*, *zeteki zeteki*, Of Panama, **Smith, H. M. (2)**.

Scaphiophis albopunctatus, Of N. Rhodesia, photo., **Vesey-Fitzgerald (1)**.

Seminatrix p. pygaea, p. paludis, Saltwater association, Neill (2).—*S. p. cyclos*, Of S. Florida, Duellman & Schwartz.

Sibon, From Guatemala, Peten; Tikal, *dimidiata dimidiata, nebulata*, Stuart.—*S. nebulatus*, From Colima, In Salada, northernmost record, Duellman (3).—Of Panama, Smith, H. M. (2).

Sibynophis collaris triangularis subsp. nov. type loc. Nongko (village), Siracha (dist.), Chon Buri (prov.) Thailand, Univ. Kans. sci. Bull. 38 2 1958 p. 1130, photograph, Taylor & Elbel.—*S. melanocephalus*, From Asahan, Malacca, Batchelor.

Siphophis cervinus cervinus, From Ecuador, Peters, J. A.—*S. c. geminatus*, Of Panama, Smith, H. M. (2).

Sonora e. episcopa, On reproduction and food, Carpenter (1).—*S. m. michoacanensis*, From Puebla, Fugler & Dixon.

Spalerosophis diadema, On bird eating, Pitman.—*S. d. cliffordi*, From Libya, natural history notes, Kramer & Schnurrenberger.

Spilotes pullatus pullatus, Of Panama, Smith, H. M. (2).—*S. p. mexicanus*, Of Gomez Farias Region, Tamaulipas, biogeography, Martin, P. S.—From Tikal, Peten, Guatemala, Stuart.

Stenorhina degenhardti degenhardti, Of Panama, Smith, H. M. (2).

Storeria dekayi, Of Mississippi (Panhandle Counties), Brode & Allison.—On reproduction and feeding, Carpenter (1).—Of Kansas, Lyon Co., Clarke, Breukelman & Andrews.—On movement range, Fitch (2).—*S. d. dekayi*, Of Long Point, Ontario, Adams & Clark.—*S. d. victa*, Of S. Florida, Duellman & Schwartz.—*S. dekayi, occipitomaculata*, Of Arkansas, in geographic relations of Ozarkian reptiles, Dowling (1).—Of Gomez Farias Region, Tamaulipas, biogeography, Martin, P. S.—*S. d. dekayi, o. occipitomaculata*, Zoogeography of E. Canada, Bleakney (1).—*S. d. wrightorum, occipitomaculata*, From Mississippi, Cliburn.—*S. d. dekayi* × *wrightorum*, New County records, Pickaway, Ohio, Adler (5).—From Ohio, new county, Ross, record, and 2¼ inches minimum lgth., Adler (6).—From Licking Cnty., new county record, Ohio, Dennis (2).—From Lawrence Cnty., new record, Ohio, Dennis

(3).—Of Darke Cnty., Ohio, Dennis (4).—*S. occipitomaculata occipitomaculata*, From Ohio, new county, Adams, Ross records, Adler (6).—Of Piedmont, Delmarva, Reed (2).

Sympholis lippiens, Redescription, specimen from Sinaloa, state record and range extension of 375 mls. N.W. from type locality, head figd., Humphrey & Shannon.

Tantalophis, gen. nov. erected for *Leptodeira discolor* Gthr., and referred to subfamily Xenodontinae, Publ. Mus. nat. Hist. Univ. Kansas, 11, 1, 1958, p. 3, head fig., penes, maxillary, Duellman (4).

Tantilla, Of Panama, *albiceps, annulata, armillata, reticulata, ruficeps, schistosa, semicincta*, Smith, H. M. (2).—From Peten Guatemala, *camula*, Tikal, Uaxactun, *moesta*, Tikal, Stuart.—*T. brevicauda*, From El Salvador, Uzzell & Starrett.—*T. calamarina*, Distribution in Colima and W. Mexico, Duellman (3).—*T. c. coronata*, Of Mississippi (Panhandle Counties), Brode & Allison.—From Mississippi, Cliburn.—*T. c. wagneri*, Of S. Florida, Duellman & Schwartz.—*T. gracilis*, Of Kansas, Lyon Co., Clarke, Breukelman & Andrews.—Of Arkansas, in geographic relations of Ozarkian reptiles, Dowling (1).—On movement range, Fitch (2).—*T. g. gracilis*, On reproduction and feeding, Carpenter (1).—*T. rubra*, Of Gomez Farias Region, Tamaulipas, biogeography, Martin, P. S.—*T. ruficeps*, From Panama, Smith, H. M. & Grant (6).—*T. utahensis*, Of Glen Canyon, Utah, Tanner (4).

Tarbophis semiannulata semiannulata, Probably in Kalahari Gemsbok National Park, Fitzsimons & Brain (4).—*T. variegatus*, From Senegal, colour notes, Condamin.

Telescopus dhara (obtusum), *semiannulatus*, On bird eating, Pitman.—*T. fallax, iberus*, Of Transcaucasica, Rotter (1).—*T. semiannulatus*, Of N. Rhodesia, photo., Vesey-Fitzgerald (1).—*T. fallax*, recorded vol. 94 (1957) erroneously from Czechoslovakia, should read as, Slovenia, Yugoslavia, Breliah, S.

Thalerophis of Oliver 1948 is referred to *Leptophis*, Opinion 524.

Thamnodynastes, Key to species, *pallidus* and *strigilis* are not sub-specifically related but are distinct subspecies—*T. chimanta*, **sp. nov.**, type loc. Chimantá Tepui, Estado Bolívar, Venezuela, 2,200 m., Acta biol. venez. 2 25 1958 p. 305, Roze (3).

Thamnophis spp., Susceptibility to Western equine encephalomyelitis virus, Thomas, Eklund & Rush.

Thamnophis bovallii, Rediscovered, from San Jorge, Lake Nicaragua, Nicaragua, and range extends to Costa Rica, it is confirmed as a valid species and not a synonym of *sumichrasti*, ecological notes, figs., etc., Shreve & Gans.

Thamnophis butleri, Eating *Hyla*, Test.

Thamnophis c. cyrtopsis, Of Glen Canyon, Utah, Tanner (4).—*T. cyrtopsis*, or *c. cyrtopsis* × *c. cyclides* intergrades, Of Gomez Farias Region, Tamaulipas, biogeography, Martin, P. S.

Thamnophis elegans vagrans, From Baker Cnty., Oregon, Ferguson, Payne & Storm.—Of Glen Canyon, Utah, Tanner (4).

Thamnophis marcianus, From Veracruz, Mexico, Ebano and Sabanito, E. San Luis Potosi, extends range app. 75 mls. S.E. from Villa Jurez, first record Veracruz, Klein.—Of Gomez Farias Region, Tamaulipas, biogeography, Martin, P. S.

Thamnophis melanogaster canescens, Apparently incorrectly recorded from Colima, Duellman (3).

Thamnophis mendax, Of Gomez Farias Region, Tamaulipas, biogeography, Martin, P. S.

Thamnophis ordinatus, In terrarium, Kattouw.

Thamnophis radix, Of Kansas, Lyon Co., Clarke, Breukelman & Andrews.—Of Arkansas, in geographic relations of Ozarkian reptiles, Dowling (1).—*T. r. radix*, From Ohio, new county, Crawford record, Adler (6).

Thamnophis sauritus, Of Kansas, Lyon Co., Clarke, Breukelman & Andrews.—Of Arkansas, in geographic relations of Ozarkian reptiles, Dowling (1).—Of Gomez Farias Region, Tamaulipas, biogeography, Martin, P. S.—*T. s. sauritus*, First record for Long Point,

Ontario, Adams & Clark.—Of Ohio, record lgth. 29½ inches, Adler (6).—Zoogeography of E. Canada, Bleakney (1).—Of Ohio, young 7½ inches length, Dennis (4).—and *s. proximus*, From Mississippi, Cliburn.—*T. s. proximus*, On reproduction, Carpenter (1).—*T. sauritus*, *s. proximus*, On saltwater association, Neill (2).—*T. s. sackeni*, Of S. Florida, Duellman & Schwartz.

Thamnophis sirtalis, Of Kansas, Lyon Co., Clarke, Breukelman & Andrews.—Of Arkansas, in geographic relations of Ozarkian reptiles, Dowling (1).—On movement range, Fitch (2).—*T. s. sirtalis*, Of Long Point, Ontario; note on excessive melanism, Adams & Clark.—New County record, Delaware, Ohio, Adler (5).—From Ohio, new county, Perry, record, Adler (6).—Zoogeography of E. Canada, Bleakney (1).—From Cass Cnty., Minnesota, Brattstrom (2).—Of Mississippi (Panhandle counties), Brode & Allison.—From Mississippi, Cliburn.—From Licking Cnty., Ohio, Dennis (2).—Of S. Florida, Duellman & Schwartz.—On saltwater association, Neill (2).—and *s. fitchi*, *s. concinnus*, *s. tetrataenia*, On geographic variation in plasma pattern, Dessauer & Fox.—*T. s. fitchi*, Specimen 1,276 mm. total length from Fresno Cnty., California, Robinson.—*T. s. parietalis*, On reproduction, Carpenter (1).—[*T. sirtalis*], Eating minnows, McKay & Dew.—Observations on hibernation, Nero (1).

Thamnophis sumichrasti, *bovallii* is now removed from the synonymy and revived as a distinct species, Shreve & Gans.

Thelotornis kirtlandii, On bird eating, Pitman.—Of N. Rhodesia, Vesey Fitzgerald (1).—*T. k. kirtlandii*, From the Ivory Coast, Condamin.—From Liberia, Taylor & Weyer.—*T. k. capensis*, On fatal bite (F. J. de R. Lock, 1953), and other serious cases, Fitzsimons, D. C. & Smith.

Tretanorhinus mocquardi, *migroluteus migroluteus*, Of Panama, Smith, H. M. (2).—*T. v. variabilis*, *v. lewisi*, *gaigeae*, *nigroluteus*, On saltwater association, Neill (2).

Trimetopon barbouri, From Panama, note on resemblance to *Tantilla*, Smith, H. M. & Grant (6).—*T. barbouri*, *slevini*, Of Panama, Smith, H. M. (2).

Trimorphodon biscutatus biscutatus, *latifascia*, Distribution in Colima and W. Mexico, **Duellman** (3).—*T. lambda*, First record in S.W. New Mexico, **Gehlbach**.—From Pinacate larva cap, N.W. Sonora, Mexico, **Smith, P. W. & Hensley** (2).—From Arizona, in mine shaft, 185 ft. deep, Pinal Co., **Williams & Chrapliwy**.—*T. latifascia*, First record from Colima, **Duellman** (3).—*T. paucimaculatus*, First authentic record for Jalisco; *biscutata* from Guadalajara may be referable to this species, **Smith, H. M. & Grant** (5).—*T. tau*, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**

Tropidoclonion lineatum, Of Kansas, Lyon Co., **Clarke, Breukelman & Andrews**.

Tropidodipsas fasciatus, *satorii*, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**—*T. fischeri*, First record from El Salvador, **Uzzell & Starrett**.—*T. occidentalis*, *philippi*, Distribution in Colima, **Duellman** (3).—*T. sartori sartori*, From Peten, Guatemala, Tikal; Uxactun, **Stuart**.

Tropidonotus see under *Natrix*.

Trypanurgos compressus, Of Panama, **Smith, H. M.** (2).

Urotheca williamsi sp. nov., type loc.: El Junquito, Dist. Federal, Venezuela, 1,900 m., paratypes from other localities; *Breviora* No. 88, 1958, p. 1, **Roze** (4).

Virginia, Takes priority over *Haldea*, **Zillig**.

Xenelaphis ellipsifer, On colour pattern, fig., **Boo-Liat** (2).—*X. hexagonotus*, From Asahan, Malacca, **Batchelor**.

Xenodon colubrinus, Of Panama, **Smith, H. M.** (2).—*X. mexicanus*, From Tikal, Peten, Guatemala, **Stuart**.—*X. punctatus*, On systematic position, *Sordellina brandon-jonesii*; *S. pauloensis* are synonyms, **Hoge**.

Zaocys carinatus, *fuscus*, From Asahan, Malacca, **Batchelor**.

CROTALIDAE see under

VIPERIDAE

ELAPIDAE

Zoogeography of the Pacific Basin, **Brown, W. C.**—Hand list of species in Panama, **Smith, H. M.** (2).—Of Cairns,

N. Queensland, **Hosmer**.—Checklist of S. Rhodesia, **Broadley** (6).

Acanthophis antarcticus, Of Dutch New Guinea, head figd., general notes, **Brongersma** (6).—Biochemistry of venom, **Kaiser & Michl**.

Aspidelaps lubricus scutatus, Probably in Kalahari Gemsbok National Park, **Fitzsimons & Brain** (4).

Boulengerina annulata stormsi, Of N. Rhodesia, photo., **Vesey-Fitzgerald** (1).

Brachyaspis curta, Of S.W. coast, Australia, **Mertens** (8).

Bungarus candidus, Of Thailand, **Taylor & Elbel**.—*B. coeruleus*, Biochemistry of venom, **Kaiser & Michl**.—On antivenine, **Maaløe**.—*B. fasciatus*, From Asahan, Malacca, **Batchelor**.—and *multicinctus*, Biochemistry of venom, **Kaiser & Michl**.

Callophis intestinalis, Biochemistry of venom, **Kaiser & Michl**.

Demansia affinis, *psammophis*, Of King's Park, **Glauert**.—*D. textilis*, Biochemistry of venom, **Kaiser & Michl**.—Photograph, **Warham** (1).

Dendroaspis sp., On combat or courtship behaviour, **Curry-Lindahl** (2).—*D. angusticeps*, *jamesoni*, *viridis*, Biochemistry of venom, **Kaiser & Michl**.—*D. polylepis*, Of N. Rhodesia, photos., **Vesey-Fitzgerald** (1).—and *angusticeps*, *jamesonii*, *viridis*, On bird eating, **Pitman**.—*D. viridis*, From the Ivory Coast; *polylepis*, from Senegal, (2nd record), **Condamin**.—*D. viridis*, On action of antihistamines on bite, **Lefrou & Michard**.

Denisonia gouldii, Of King's Park, **Glauert**.—*D. superba*, Biochemistry of venom, **Kaiser & Michl**.

Diemenia (*Demansia*) *textilis*, Biochemistry of venom, **Kaiser & Michl**.

Elaps see under *Micrurus*.

Elapsoidea guntheri subsp., From Haut Katanga; *decosteri multicincta*, from Ituri, Belgian Congo, **Laurent**.—*E. sundevallii decosteri*, Of N. Rhodesia, **Vesey-Fitzgerald** (1).—*E. sundevallii fitzsimonsi*, Of Kalahari Gemsbok National Park, **Fitzsimons & Brain** (4).

Furina see under *Vermicella*.

Hemibungarus japonicus, Of Amami Group, Loo Choo Ids., photo., Koba.—*H. kelloggi*, New record for Chekiang, China, head fig., Hu, Hwang, Ho & Wei.

Hoplocephalus curtus, superbus, Biochemistry of venom, Kaiser & Michl.

Maticora bivirgata; intestinalis, From Asahan, Malacca, Batchelor.—*M. intestinalis*, Biochemistry of venom, Kaiser & Michl.

Micropechis ikaheka, Of Dutch New Guinea, general notes, Brongersma (6).

Micruroides euryxanthus euryxanthus, From Arizona, San Bernardino Ranch, Williams & Chrapliwy.

Micrurus, Of Mexico, *bernadi*, head figd., *ephippifer*, *elegans elegans*, fig. from Jan. copied; *laticollaris*, notes on distribution, variation, descriptions etc. of these, Schmidt (2).—Of Panama, *ancoralis jani*, *clarki*, *dissoleucus dunni*, *mipartitus multifasciatus*, *nicrocinctus nicrocinctus*, *n. coibensis*, *n. mosquitensis*, *n. yatesi*, *stewarti stewarti*, *s. schmidtii*, Smith, H. M. (2).

Micrurus affinis alienus, From Guatemala, Peten, Pikal; Uaxactún, Stuart.

Micrurus corallinus, Biochemistry of venom, Kaiser & Michl.

Micrurus diastema diastema, Distribution in Colima and W. Mexico, Duellman (3).—*M. d. proximans*, subsp. nov., Holotype from 4 mls. N.E. San Blas, Nayarit; paratype from Magdalena, Jalisco, Mexico, *Herpetologica*, 13 (4) 1958, p. 270, Smith, H. M. & Chrapliwy (4).

Micrurus dissoleucus dunni, From Panama, Smith, H. M. & Grant (6).

Micrurus euryxanthus, Biochemistry of venom, Kaiser & Michl.

Micrurus frontalis, Biochemistry of venom, Kaiser & Michl.

Micrurus fulvius, Biochemistry of venom, Kaiser & Michl.—Of Gomez Farias Region, Tamaulipas, biogeography, Martin, P. S.—*M. f. fulvius*, From Mississippi (Panhandle Counties), Brode & Allison.—From Mississippi, Cliburn.—Of S. Florida, colour patterns figured, *f. barbouri*, is a synonym of *f. fulvius*, Duellman & Schwartz.

Micrurus laticollaris, Range extended west to La Salada and Los Amoles, Colima, Duellman (3).

Micrurus lemniscatus, Biochemistry of venom, Kaiser & Michl.—*M. lemniscatus* [subsp. nov.—publication not seen], from Venezuela, B. Guiana and Trinidad. Bol. Mus. Cienc. Nat. 1 1955: 1-18, Burger.

Micrurus nicrocinctus nicrocinctus, From Panama, Smith, H. M. & Grant (6).

Micrurus s. surinamensis, On sexual dimorphism, figs., Hose.

Naia, Key to Somali species, *haie*, *melanoleuca*, *nigricollis pallida*, notes on venom, Cherchi (5).—A general popular article, some photographs, Shaw (2).—Observations on backwards progress into hole, Woods.—[*Naja*], The relationship of certain enzymes in venom and action mechanism, Radomski & Deichmann.

Naja bungarus, Biochemistry of venom, Kaiser & Michl.

Naja flava, Biochemistry of venom, Kaiser & Michl.—On antivenine, Maaløe.—Comparative study on venom of *C. adamanteus*, Radomski & Deichmann (1).—On bird eating, Pitman.—*Naja haje*, From Senegal, Condamin.—Biochemistry of venom, Kaiser & Michl.—On bird and egg eating, Pitman.—Of N. Rhodesia, Vesey-Fitzgerald (1).—From Libya, natural history notes, Kramer & Schnurrenberger.—and *h. annulifera*, General article, photographs, Broadley (3).

Naja hannah, From Asahan, Malacca, Batchelor.—Biochemistry of venom, Kaiser & Michl.—On antivenine, Maaløe.—Notes on habits, pests, etc., figs., Ruiter (1).

Naja melanoleuca, From the Ivory Coast, Condamin.—Biochemistry of venom, Kaiser & Michl.—On bird and egg eating, Pitman.—29 years, 1 mth., in captivity, Shaw (1).—From Liberia, Taylor & Weyer.—Of N. Rhodesia, Vesey-Fitzgerald (1).—*N. m. melanoleuca*, From N. Kivu; *m. subfulva*, from Ituri, Belgian Congo, Laurent.

Naja naja, From Asahan, Malacca, Batchelor.—On antivenine, Maaløe.—Plasma proteins, Nair.—On saltwater association, Neill (2).—Partial albinism

in Chinese specimen, **Romer, J. D.** (1).—*N. n. naja*, In a terrarium, **Hoervers**.—*N. naja, n. atra*, Biochemistry of venom, **Kaiser & Michl**.—*N. n. kaouthia*, Of Thailand, **Taylor & Elbel**.—*N. n. sputatrix* (?), From Flores, habit notes, **Hoesel**.

Naja nigriollis, Biochemistry of venom, **Kaiser & Michl**.—On antivenine, **Maaløe**.—On bird and egg eating, **Pitman**.—*N. n. crawshayi*, Of N. Rhodesia, **Vesey-Fitzgerald** (1).

Naja nivea, Of Kalahari Gemsbok National Park, 3 colour forms, **Fitzsimons & Brain** (4).—Biochemistry of venom, **Kaiser & Michl**.

Naja tripudians, Biochemistry of venom, **Kaiser & Michl**.—On antivenine, **Maaløe**.

Notechis scutatus, scutellatus, Biochemistry of venom, **Kaiser & Michl**.—*N. scutatus scutatus*, The separation and properties of the neurotoxins from the venom, **Doery**.—On antivenine, **Maaløe**.—On protective action of venom against staphylococcal toxin, **North & Doery**.—*N. s. occidentalis*, Of King's Park, **Glauert**.

Ogmodon vitianus, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Oxyuranus scutellatus, On saltwater association, **Neill** (2).—General note and on captive specimens, photographs, **Oliver** (1).

Pseudechis sp., Of Dutch New Guinea, general notes, **Brongersma** (6).—*P. australis, porphyriacus, scutellatus*, Biochemistry of venom, **Kaiser & Michl**.—*P. porphyriacus*, On saltwater association, **Neill** (2).

Pseudohaje goldii, From Mayombe, Bas-Congo, **Laurent**.—No evidence of bird eating, **Pitman**.

Rhinelaps warra, Notes, **Reilly**.

Rhynchoelaps bertholdi, Of S.W. coast Australia, photograph, **Mertens** (8).

Sepedon haemachates, Biochemistry of venom, **Kaiser & Michl**.—On bird eating, **Pitman**.

Vermicella calonota, Of S.W. coast, Australia, **Mertens** (8).

Walterinnesia aegyptia, Effect of venom, **Mohamed & Zaki**.

HOMALOPSIDAE

GENERA, if any, see under COLUBRIDAE.

HYDROPHIDAE

Notes, **Ruiter** (3).—General notes, **Ruiter** (3).—General article, **Smith, J. L. B.**—Of New Caledonia, key to genera and species, notes on venom, etc., **Gail & Rageau**.—Of Cairns, N. Queensland, **Hosmer**.

Aipysurus eydouxi, Of Viet-Nam, on venom, **Barme**.—*A. laevis*, figs., *annulatus*, Of New Caledonia, **Gail & Rageau**.

Distira cyanocincta, Plasma proteins, **Nair**.—*D. (Hydrophis) semperi*, Biochemistry of venom, **Kaiser & Michl**.

Enhydrina bengalis, schistosa, valakadyn, Biochemistry of venom, **Kaiser & Michl**.—*E. schistosa*, Of Viet-Nam, on venom, **Barme**.—Of Dutch New Guinea, general notes, **Brongersma** (6).—Note, **Albahary & Budker**.—Of Madagascar, **Guibé** (1).—Of Thailand, **Taylor & Elbel**.

Hydrophis, Of Viet-Nam, on venom, **Barme**.—Of Thailand, *mamillaris*, (photographs), *caeruleus* (photograph), **Taylor & Elbel**.—*H. caeruleus*, Of Coasts of New Caledonia, figs., **Gail & Rageau**.—*H. ornata*, On salt glands, **Schmidt-Nielsen & Fange**.—*H. ornatus ornatus*, Records from near Hong Kong, photograph, **Romer, J. D.** (2).—*H. semperi*, Biochemistry of venom, **Kaiser & Michl**.

Kolpophis annandalei, Of Viet-Nam, on venom, **Barme**.

Lapemis hardwickii, Of Viet-Nam, on venom, **Barme**.—Of Thailand, photograph, **Taylor & Elbel**.

Laticauda, On salt glands, **Schmidt-Nielsen & Fange**.—*L. colubrina*, General article, fig., **Smith, J. L. B.**—*L. colubrina* (First record); *laticaudata wolffi* subsp. nov., type loc.: Niupani, shallow water, nr. shore of Lake TeNgganu, Rennell Id., [p. 128, head figs.]; *crockeri*, notes, Nat. Hist. Rennell Is., 1 1958, **Volsøe** (1).—*L. colubrina*, From Rennell Id., established; *laticaudata crockeri* or *l. wolffi* from Rennell Id., **Volsøe** (2).—*L. laticaudata, colubrina* Of New Caledonia, figs., **Gail & Rageau**.

Microcephalophis gracilis, Of Viet-Nam, on venom, **Barme**.—Ile des Pins, Kuto, New Caledonia, fig., **Gail & Rageau**.

Pelamis, On salt glands, **Schmidt-Nielsen & Fange**.—Note, **Albahary & Budker**.—Of Nouméa, fig., **Gail & Rageau**.—Of Madagascar, **Guibé** (1).—Biochemistry of venom, **Kaiser & Michl**.—Of Himmaturri Id., N. Malé Atoll, Maldives, **Phillips**.—Of Panama, **Smith, H. M.** (2).—General article, fig., **Smith, J. L. B.**—First record of Rennell Id., **Volsee** (1).

Pelamysdrus platurus, Of Somali, **Cherchi** (5).

Thalassophina viperina, Of Viet-Nam, on venom, **Barme**.—Of Thailand, **Taylor & Elbel**.

ILYSIIDAE and INILIIDAE

see under ANILIDAE

LEPTOTYPHLOPIDAE

Hand list of genera and species in Panama, **Smith, H. M.** (2).—Checklist of S. Rhodesia, **Broadley** (6).

Leptotyphlops sp., From vicinity of Pinacate larva cap, N.W. Sonora, Mexico, **Smith, P. W. & Hensley** (2).

Leptotyphlops albifrons, subsp. From Auyantepui, Bolivar, Venezuela, **Roze** (2).—*Stenostoma albifrons*, On type, allocation and suggestion that type locality should be designated and substitute for lost type be redescribed, **Smith, H. M. & List** (9).

Leptotyphlops conjunctus lepezi, From Bas-Congo, **Laurent**.—From N. Rhodesia, **Vesey-Fitzgerald** (1).

Leptotyphlops dulcis dissecta, From Arizona and N. Montana, range extensions, **Tanner** (5).

Leptotyphlops goudoti, Of Panama, **Smith, H. M.** (2).

Leptotyphlops humilis dugesi, In Colima, **Duellman** (3).

Leptotyphlops macrolepis, Of Panama, **Smith, H. M.** (2).

Leptotyphlops macrorhynchus, From Dra Valley, S. of Research Station, Aouinet-Torkoz, Morocco, **Pasteur & Bons**.

Leptotyphlops myopicus, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**

Leptotyphlops narirostris, From Portuguese Guinea, **Manacas** (2).

Leptotyphlops nigricans, From Mozambique, **Manacas** (1).

Leptotyphlops phenops ("albifrons"), Of Panama, **Smith, H. M.** (2).—*L. p. bakewelli*, Distribution in Colima and W. Mexico, **Duellman** (3).

Leptotyphlops scutifrons, Probably in Kalahari Gemsbok National Park, **Fitzsimons & Brain** (4).

Stenostoma see under *Leptotyphlops*.

NATRICIDAE

If used, see under COLUBRIDAE.

PYTHONIDAE

see under BOIDAE

TYPHLOPIDAE

Zoogeography of the Pacific Basin, **Brown, W. C.**—Checklist of S. Rhodesia, **Broadley** (6).—Anomalepidae. Hand list of genera and species in Panama, **Smith, H. M.** (2).

Anomalepis dentata (mexicana), Of Panama, **Smith, H. M.** (2).

Helminthophis frontalis, Of Panama, **Smith, H. M.** (2).

Liotyphlops albirostris, emunctus (?), *rowani*, Of Panama, **Smith, H. M.** (2).—*L. rowani*, sp. nov., Type loc.: Pacific shoreline, Ft. Clayton Reservation, Panama Canal Zone, [p. 207]; *albirostris*, Panama, *Herpetologica* 14 (4) 1958, **Smith, H. M. & Grant** (6).

Typhlops sp., From Asahan, Malacca, **Batchelor**.—Of Dutch New Guinea, general notes, **Brongersma** (6).—List of species from Cairns, N. Queensland, **Hosmer**.—Of Madagascar, descriptions of species, *grandidieri* (head fig.), *reuteri*, *braminus* (head fig.), *ocularis* (head fig.), *comorensis* (head fig.), *microcephalus*, *arenarius* (head fig.), *madagascariensis* (head fig.), *decorsei* (head fig.), *mucronatus* (head fig.), **Guibé** (1).

Typhlops acuticauda, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Typhlops aluensis, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Typhlops angolensis adolfi, From Ituri, Belgian Congo, **Laurent**.

Typhlops basimaculatus, From Veracruz, head and pigmentation figd., **Fugler & Dixon**.

Typhlops braminus, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**—Of Flores, **Hoesel**.—Notes on the skeleton, figs., **List**.—Of Girawa Id., N. Malé Atoll, Maldives, **Phillips**.

Typhlops congestus, From Sankuru, Belgian Congo, **Laurent**.

Typhlops diardi mulleri, Of Thailand, **Taylor & Elbel**.

Typhlops gracilis, From N. Rhodesia, photo., **Vesey-Fitzgerald (1)**.

Typhlops leprosus, sp. nov., type locality: Firestone Plantation, Harbel, Liberia; Univ. Kanssci. Bull. 38 2 1958, p. 1204, **Taylor & Weyer**.

Typhlops lumbricalis, In Cuba, ecology, **Cooper (1)**.—From south of Miami, Florida, possibly introduced, **Myers**.

Typhlops olivaceus reduncus, First record of Rennell Id., **Volsøe (1)**.

Typhlops punctatus, From the Ivory Coast, **Condamin**.—From Portuguese Guinea, **Manças (2)**.—From N. Rhodesia, photo., **Vesey-Fitzgerald (1)**.—*T. p. punctatus*, From Uele, Belgian Congo, **Laurent**.—From Liberia, **Taylor & Weyer**.

Typhlops schinzi, Probably in Kalahari Gemsbok National Park, **Fitzsimons & Brain (4)**.

Typhlops schlegelii mucroso, From N. Rhodesia, photo., **Vesey-Fitzgerald (1)**.

Typhlops vermicularis, Specimen 392 mm. in total length from Israel, **Hoofien (2)**.

Typhlops willeri, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

VIPERIDAE

Checklist of S. Rhodesia, **Broadley (6)**.—Crotalidae Hand list of genera and species of Panama, **Smith, H. M. (2)**.

Agkistrodon see under *Ancistrodon*.

Ancistrodon acutus, Biochemistry of venom, **Kaiser & Michl**.

Agkistrodon bilineatus bilineatus, Distribution in Colima and W. Mexico, **Duellman (3)**.—*A. bilineatus*, probably *b. taylori*, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**

Agkistrodon blomhoffi blomhoffi, From Japan (purchased in Yokohama), **Alexander & Diener**.—*A. blomhoffi*, Biochemistry of venom, **Kaiser & Michl**.

Ancistrodon contortrix, On reproduction and feeding, **Carpenter (1)**.—Of Kansas, Lyon Co., **Clarke, Breukelman & Andrews**.—Of Arkansas, on geographic relations of Ozarkian reptiles, **Dowling (1)**.—On movement range, **Fitch (2)**.—*A. c. contortrix*, From Mississippi, **Cliburn**.—and *c. mokeson, c. laticinctus, c. pictigaster*, General information, photographs, **Oliver (2)**.—*A. c. laticinctus*, 17 years, 7 mths. in captivity and still alive, **Shaw (1)**.—*A. c. mokeson*, From Lawrence Cnty., new record, Ohio, **Dennis (3)**.—On aberrant coloration, photograph, **Gloyd**.—Biochemistry of venom, **Kaiser & Michl**.—On 'Combat Dance,' **Sutherland**.

Agkistrodon halys, In captivity, photograph, **Rotter (3)**.

Agkistrodon piscivorus, Of Arkansas, on geographic relations of Ozarkian reptiles, **Dowling (1)**.—On material ingested, **Goodman**.—Blood chemistry, **Hutton**.—*A. p. piscivorus*, Of S. Florida, **Duellman & Schwartz**.—Biochemistry of venom, **Kaiser & Michl**.—On salt-water association in Duval Cnty., Florida, **Neill (2)**.—*A. p. leucostoma*, From Mississippi, **Cliburn**.

Ancistrodon rhodostoma, Biochemistry of venom, **Kaiser & Michl**.—On anti-venom specific, **Martin & Mathieu**.—Of Thailand, **Taylor & Elbel**.—On tail vibration, **Waters**.

Ancistrodon ussuriensis, Biochemistry of venom, **Kaiser & Michl**.

Aspis cerastes, Life history, photographs, **Schnurrenberger (1)**.—10 years, 5 mths. in captivity and still alive, **Shaw (1)**.—and *vivipera*, From Libya, natural history notes, **Kramer & Schnurrenberger**.

Atheris ceratophorus, Biochemistry of venom, **Kaiser & Michl**.—*A. chlorochis*, From the Ivory Coast, **Condamin**.—*A. nitschei rungwensis*, Of N. Rhodesia, **Vesey-Fitzgerald (1)**.—*A. squamigera robusta*, From Ituri, Belgian Congo, **Laurent**.

Atractaspis, Case history of bite, **Ionides**.—Key to Somali species, *engdahli, microlepidota magrette, m. micro-*

lepidota, *scorteccii*, observations on venom, **Cherchi** (5).

Atractaspis aterrima, From the Ivory Coast, **Condamin**.—Biochemistry of venom, **Kaiser & Michl**.

Atractaspis bibronii, Probably in Kalahari Gemsbok National Park, **Fitzsimons & Brain** (4).—Case history of bite, **Siemens**.—*A. b. rostrata*, Of N. Rhodesia, photo., **Vesey-Fitzgerald** (1).

Atractaspis boulengeri, From Ituri, Belgian Congo, **Laurent**.

Atractaspis congica orientalis, From Bolobo, dist. Lake Leopold, **Laurent**.

Atractaspis corpulenta corpulenta, From Liberia, **Taylor & Weyer**.—*A. c. kivuensis*, subsp. nov., Type loc.: Riviere Bibugwa, Kivu, Belgian Congo, paratypes, various localities, Rev. Zool. Bot. afr. 58 (1-2) 1958, p. 127, **Laurent**.

Atractaspis scorteccii, Of Somaliland, photographs of head, **Cherchi** (2).

Bitis, Of N. Rhodesia, *arietans*, photo.; *gabonica*, photo., **Vesey-Fitzgerald** (1).

Bitis arietans, Fig. as *E. carinatus*, in Nigerian Field., 14 p. 113, 1949, **Cansdale**.—On birth and swallowing of young, **Campbell**.—Comparative anatomy of head, figs., **Dullemeijer**.—Of Kalahari Gemsbok National Park, **Fitzsimons & Brain** (4).—Biochemistry of venom, **Kaiser & Michl**.—On birth, **Keyter**.—On birth of young and swallowing of young, **Lombard**.—On antivenine, **Maaløe**.—On bird eating, **Pitman**.—Coloration of teeth through iron oxide, **Schmidt, W. J.**—*B. lachesis*, From Senegal, **Condamin**.—(*lachesis*, *l. somalica*), Of Somali, notes on venom, **Cherchi** (5).

Bitis atropus, From Pungwe R., causeway, Inyanga Dist., S. Rhodesia, northernly record, **Fitzsimons** (2).

Bitis caudalis, Of Kalahari Gemsbok National Park, **Fitzsimons & Brain** (4).—Biochemistry of venom, **Kaiser & Michl**.—Of Angola, fig., **Mertens** (3).

Bitis cornuta, Biochemistry of venom, **Kaiser & Michl**.—Of Angola, fig., **Mertens** (3).

Bitis gabonica, From the Ivory Coast, **Condamin**.—From Hondi R. valley, nr. border of Mozambique, Inyanga Dist., S. Rhodesia, **Fitzsimons** (2).—Biochemistry of venom, **Kaiser & Michl**.—On action of antihistamine on bite, **Lefrou & Michard**.—On antivenine, **Maaløe**.—On bird eating, **Pitman**.—From Liberia, colour note, **Taylor & Weyer**.

Bitis heraldica, Is distinct and valid, figs., Angola, **Mertens** (3).

Bitis lachesis see under *arietans*.

Bitis nasicornis, Biochemistry of venom, **Kaiser & Michl**.—On antivenine, **Maaløe**.—From Liberia, colour note, **Taylor & Weyer**.

Bitis peringueyi, Observations on evolution, **Hoesch**.—Biochemistry of venom, **Kaiser & Michl**.

Bothrops, Hand list of species of Panama, *atrox asper*, *godmani*, *lansbergi*, *lateralis*, *montecelli*, *nasutus*, *nigroviridis nigroviridis*, *mummifer*, *ophryomegas*, *schlegeli schlegeli*, **Smith, H. M.** (2).—From Peten, Guatemala *atrox asper*, Tikal; Uaxactún, *nasuta*, Tikal, **Stuart**.

Bothrops alternatus, Biochemistry of venom, **Kaiser & Michl**.—From Rio Grande do Sul; on an aberrantly marked specimen, fig., **Lema** (2).

Bothrops atrox atrox, Of Guayacara, Bolivar State, Venezuela, **Roze** (2).—*B. a. asper*, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**

Bothrops bilineatus, Biochemistry of venom, **Kaiser & Michl**.

Bothrops cotiara, Biochemistry of venom, **Kaiser & Michl**.

Bothrops godmani, Biochemistry of venom, **Kaiser & Michl**.—From El Salvador, **Uzzell & Starrett**.

Bothrops insularis, Biochemistry of venom, **Kaiser & Michl**.—On intersexuality in a highly isolated population, **Schreiber, Hoge, Belluomini & Penha**.

Bothrops itapetiningae, Biochemistry of venom, **Kaiser & Michl**.

Bothrops jararaca, On proteolytic activity of venom, **Henriques et al.**.—Biochemistry of venom, **Kaiser & Michl**.—On antivenine, **Maaløe**.

Bothrops jararacussu, Biochemistry of venom, **Kaiser & Michl**.

Bothrops lichenosa, sp. nov., type loc. Chimantá Tepui, Estado Bolívar, Venezuela, Acta biol. venezuel. 2 25 1958, p. 308, figs., **Roze** (3).

Bothrops nasuta, Biochemistry of venom, **Kaiser & Michl**.

Bothrops neuwiedi, Biochemistry of venom, **Kaiser & Michl**.

Bothrops nummifer nummifer, Biochemistry of venom, **Kaiser & Michl**.

Causus resimus, Of Somali, note on venom, **Cherchi** (5).—Biochemistry of venom, **Kaiser & Michl**.—*C. rhombeatus*, From the Ivory Coast and Senegal, (first record from Cap-Vert), **Condamin**.—Biochemistry of venom, **Kaiser & Michl**.—On antivenine, **Maaløe**.—From Liberia, **Taylor & Weyer**.—Of N. Rhodesia, photo., **Vesey-Fitzgerald** (1).

Cerastes cornutus, On antivenine, **Maaløe**.—On bird eating, **Pitman**.—and *vipera*, Biochemistry of venom, **Kaiser & Michl**.—*C. vipera*, On sexual dimorphism in coloration, **Marx** (3).

[*Crotalus*], The relationship of certain enzymes in venom and action mechanism, **Radomski & Deichmann**.—[*Crotalus*], Of Brazil, on venom, **Habermann**.—*Crotalus*, On ability to perceive airborne odours, *atrox*, *scutulatus*, *ruber*, *viridis*, **Cowles & Phelan**.

Crotalus adamanteus, From Mississippi, **Cliburn**.—Toxicity of venom and antidotal effects of hydrocortisone, **Deichmann et al.**—Of S. Florida, **Duellman & Schwartz**.—Biochemistry of venom, **Kaiser & Michl**.—Saltwater association in Florida, **Neill** (2).—Comparative study on venom of *N. flava*, **Radowski & Deichmann** (1).

Crotalus atrox, On reproduction, **Carpenter** (1).—Of Arkansas, on geographic relations of Ozarkian reptiles, **Dowling** (1).—Comparative anatomy of head, figs., **Duellemeijer**.—On aberrant colour forms, albinos, photographs, **Gloyd**.—Biochemistry of venom, **Kaiser & Michl**.—On antivenine, **Maaløe**.—21 years, 2 mths. in captivity, still alive, **Shaw** (1).—*C. a. atrox*, From vicinity of Pinacate larva cap., N.W. Sonora, Mexico, **Smith, P. W. & Hensley** (2).

Crotalus basiliscus, Distribution in Colima and W. Mexico, **Duellman** (3).

Crotalus cerastes, Biochemistry of venom, **Kaiser & Michl**.—*C. c. cerco-bombus*, *c. laterorepens*, From vicinity of Pinacate larva cap, N.W. Sonora, Mexico, **Smith, P. W. & Hensley** (2).

Crotalus confluentus, Biochemistry of venom, **Kaiser & Michl**.

Crotalus durissus durissus, Biochemistry of venom, **Kaiser & Michl**.—*C. d. totonacus*, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**

Crotalus horridus, Of Arkansas, on geographic relations of Ozarkian reptiles, **Dowling** (1).—On movement range, **Fitch** (2).—Remains in New Paris sink holes, Pennsylvania, **Guilday & Bender**.—*C. h. horridus*, Record from Jefferson Cnty., Illinois, **Estes**.—Biochemistry of venom, **Kaiser & Michl**.—21 years, 9 mths. in captivity, **Shaw** (1).—On "Combat Dance," **Sutherland**.—*C. h. atricaudatus*, Of Mississippi, **Cliburn**.—10 years, 10 mths. in captivity, **Shaw** (1).—and *adamanteus*, On bite from recently milked specimens, **Parrish & Thompson**.

Crotalus lepidus morulus, Of Gomez Farias Region, Tamaulipas, biogeography, **Martin, P. S.**

Crotalus mitchelli muertensis, On saltwater association, **Neill** (2).—*C. mitchelli* subsp., From vicinity of Pinacate larva cap, N.W. Sonora, Mexico, **Smith, P. W. & Hensley** (2).

Crotalus ruber, Biochemistry of venom, **Kaiser & Michl**.—On saltwater association, **Neill** (2).

Crotalus scutulatus scutulatus, On aberrant colour form, photograph, **Gloyd**.—From vicinity of Pinacate larva cap. N.W. Sonora, Mexico, **Smith, P. W. & Hensley** (2).

Crotalus terrificus terrificus, On antivenine, **Maaløe**.—and *t. basiliscus*, *t. var. collineatus*, Biochemistry of venom, **Kaiser & Michl**.

Crotalus tigris, Biochemistry of venom, **Kaiser & Michl**.—From 23 mls. S.W. Navajoa, Sonora, extends range 100 mls. south from Guaymas, **Smith, W. M. & Chrapliwy** (4).

Crotelus triseriatus triseriatus, Apparently incorrectly reported from Colima, Duellman (3).

Crotalus viridis, From Baker Cnty., Oregon, Ferguson, Payne & Storm.—*C. v. viridis*, On aberrant colour form, photograph, Gloyd.—19 years, 1 mth., in captivity, and still alive, Shaw (1).—and *v. oreganus*, Biochemistry of venom, Kaiser & Michl.—*C. v. concolor*, Of Glen Canyon, Utah, Tanner (4).—*C. v. helleri*, Natural history of visual pigments, Crescitelli (2).—On saltwater association, Neill (2).

Echis carinatus, From Bihar, Acharji.—Fig. in Nigerian Field, 14, p. 113, 1949, incorrect, should be *B. arietans*, Cansdale.—Of Somali, notes on venom, Cherchi (5).—From Senegal, (Dakar, town centre), Condamin.—Observations on venom, Izard & Boquet.—Biochemistry of venom, Kaiser & Michl.—On antivenine, Maaløe.

Lachesis muta, Biochemistry of venom, Kaiser & Michl.—Account of a capture in Panama, photographs, Lundy.—*L. m. stenophrys*, Of Panama, Smith, H. M. (2).

Sistrurus atrox, Of Arkansas, on geographic relations of Ozarkian reptiles, Dowling (1).—*S. catenatus tergeminus*, Of Kansas, Lyon Co., Clarke, Breukelman & Andrews.—*S. miliarius barbouri*, intergrades with *m. streckeri*; *m. streckeri*, From Mississippi, Cliburn.—*S. m. barbouri*, Of S. Florida, Duellman & Schwartz.—On saltwater association, Neill (2).

Trionocephalus, Coloration of teeth through iron oxide, Schmidt, W. J.—*T. colombiensis* Hallowell = *Bothrops atrox atrox* (Linn.), Roze (1).

Trimeresurus, Of Thailand, key to species, *albolabris*, *popeorum* (photograph), specimen Brit. mus. 72.4.17.137, Khasi Hills, Assam, designated as type; *kanburiensis*, *purpureomaculatus purpureomaculatus*, Taylor & Elbel.—*T. albolabris*, Comparative anatomy of head, figs., Dullemeijer.—From Flores, Hoesel.—*T. anamallensis*, *flavoviridis*, Biochemistry of venom, Kaiser & Michl.—*T. f. flavoviridis*, Of Amami Group, Loo Choo Ids., Koba.—*T. gramineus*, *microsquamatus*, Biochemistry of venom, Kaiser & Michl.—*T. okinavensis*, Of Amami Group, Loo

Choo Ids., photo., Koba.—*T. puniceus*, Biochemistry of venom, Kaiser & Michl.—*T. sumatranus*; *wagleri*; *monticola*, On tail vibration, Waters.—*T. ussuriensis*, Biochemistry of venom, Kaiser & Michl.—*T. wagleri*, From Asahan, Malacca, Batchelor.—Biochemistry of venom, Kaiser & Michl.

Vipera, the following were recorded in vol. 94 (1957), erroneously from Czechoslovakia, should read as Slovenia, Yugoslavia, *b. berus*, *b. bosniensis*, *aspis*, *ammodytes*, Brelih, S.

Vipera ammodytes, Morphology of lungs, Dokov (2).—Comparative anatomy of head, figs., Dullemeijer.—Biochemistry of venom, Kaiser & Michl.—On antivenine, Maaløe.—On properties of venom, Muic & Piantanida.—(†) On origin in Roumania, Stugren.

Vipera aspis, Of Liguria, N.W. Italy, variation, comparison with specimens of other localities in Italy, plates, Capocaccia.—Comparative anatomy of head, figs., Dullemeijer.—Behaviour in the spring in Nantes, Duguy.—Biochemistry of venom, Kaiser & Michl.—On antivenine, Maaløe.—Of Valais, Switzerland, photograph, Mariétan.—Birth and fertility, Saint Giron.—General work on German fauna, col. plate, etc., Wermuth (1).—*V. a. aspis*, Of Germany, general work, photograph, Frommhold.—From Puschlavs, 1,050–1,700 m., Switzerland, Kramer (1).—*V. a. zinnikeri*, subsp. nov., Type loc.: Auch. Dep. Gers. S.W. France, head fig., photograph, Vjschr. naturf. Ges. Zurich, 103, 1958, p. 323, 2 figs., Kramer (2).

Vipera berus, Note on food of British species, Appleby (1).—Remarks on record sizes of British specimens, Appleby (2).—Correction of distribution in Northamptonshire, Blackwell.—Presence in Grande-Brière (L. Atl.), France, Bodin & Duguy.—Photographs, Of Rhön, Tann, Germany, Fisher.—Of Poland, note on melanotic forms, Fudakowski.—Of E. France, general, Germaine.—Of Dorset, case of partial albinism, Gooch.—Of Bamberg, Bavaria, Heilingbrunner.—On antivenine, Maaløe.—Of Valais, Switzerland, photographs, note on venom, Mariétan.—On saltwater association, Neill (2).—On bird and egg eating, Pitman.—General work on German

fauna, col. plates, etc., **Wermuth (1)**.—
(†)On origin in Roumania, **Stugren**.—
V. b. berus, Mainly on feeding, **Broadley**
(5).—Of Germany, general work, photo-
graphs, **Frommhold**.—From Puschlavs,
1,800–2,000 m., Switzerland, **Kramer**
(1).—Observations on a black specimen
from Whittingen, Hanover, **Krüger**.—
From Tisza, Hungary, **Marián**.—Notes
on specimen in vivarium of Nat. Mus.
Enschede, **Roding (1)**.—Figs., Of
Twente, Holland, note on young,
Roding (2).—*V. b.*, vars. *bosniensis*,
seoanei, Biochemistry of venom, **Kaiser**
& **Michl**.

Vipera formosensis, Biochemistry of
venom, **Kaiser & Michl**.

Vipera latastei, Biochemistry of
venom, **Kaiser & Michl**.—From Cota
Doñana, Spain, **Mountfort**.—*V. l. latastei*,
From Morocco, Ifrane region,
photograph, **Bons**.

Vipera lebetina, Comparison on venom
of *xanthina palestinae*, **Izard & Boquet**.—
Biochemistry of venom, **Kaiser &**
Michl.

Vipera macrops, Biochemistry of
venom, **Kaiser & Michl**.

Vipera palaestinae, The head muscles,
and their relation to venom gland,
figs., **Kochva**.

Vipera renardi, Biochemistry of
venom, **Kaiser & Michl**.

Vipera russelli, In the India Archi-
pelago, vertebral marking variations,
figs., **Brongersma (4)**.—On systematic
position of subspecies occurring in
Malay Arch.; *r. limitis* definitely
recorded from Java, Komodo, Flores,
Endeh Id. and Lomblem; *r. siamensis*,
definitely known from, Thailand, S.
Burma and Kwangtung, China; *r.*
formosensis, appears to differ little from
r. siamensis, **Brongersma (2)**.—On
'jumping' ability, **Butler**.—On double-
headed specimens, figs., of Ceylon,
Deraniyagala (3).—Synergistic action of
venom on tissue extracts, **Georgatsos**,
Hussey & Quick.—Biochemistry of
venom, **Kaiser & Michl**.—On anti-
venine, **Maaløe**.—Plasma proteins,
Nair.—*V. r. limitis*, From Flores,
keyed differences between Surabia
and Flores specimens, **Hoesel**.

Vipera ursinii, Comparative anatomy
of head, figs., **Dullemeijer**.—Biochem-
istry of venom, **Kaiser & Michl**.—

From Italy, general notes, remarks on
captive specimen, **Kramer (3)**.—Of
Italy, figs., **Lanza**.—(†)On origin in
Roumania, **Stugren**.

Vipera xanthina palestinae, Observa-
tions on venom and comparison with
lebetina, **Izard & Boquet**.

XENOPELTIDAE

Loxocemus see under *Boidae*.

Xenopeltis unicolor, From Asahan,
Malacca, **Batchelor**.

TESTUDINES

General: Fossil.—*Pleurosternum*, *Ire-
tosternum*, *Platychelis Glyptops*, *Hylaeo-
chelys*, *Rhinochelys*, *Pelobatochelys*,
Tropidemys, *Stegochelys* and *Trachy-
dermochelys*. Notes on fossils from
Dorset, **Delair**.—Fossil reptiles from
the Upper Jura of W. Kazakhstan,
U.S.S.R., **Bajanov, V. S.**—A rare case
of preservation, **Khozatzky (2)**.—Of the
Miocene in Prearal, **Kouznetsov (1)**.—
Oligocene tortoises in C. Kazakhstan,
Kouznetsov (2).—A marine turtle from
Neopen deposits in Kazakhstan, **Kouz-
netsov (4)**.

General: Recent.—Discussion on ordi-
nal name, **Hunt (2)**.—The taxonomic
significance of cloacal bursae, list of
genera and species, summarized, **Smith**,
H. M. & James (8).—Field guide to
U.S.A. and Canada, figs., col. pls.,
etc., (not itemized in systematic sec-
tion), **Conant (1)**.—On geographic distri-
bution in Colombia, **Medem**.—Of the
Balearic Islands, biogeography, figs.
Colom (1).—Tortoises of French N.
Africa, structure, systematics, biology,
photographs, key to genera and species,
figs., **Villiers**.—Of Thailand, figs., **Taylor**
& **Elbel**.—Comprehensive work on
treatment in captivity, plates, chart,
etc., **Gijzen & Wermuth**.

Amyda see under *Trionyx*.

Caretta, Of French N. Africa, descrip.,
general habits, etc., key to *c. caretta*,
c. gigas, figs., **Villiers**.—*C. caretta*, Of
Dutch New Guinea, general note,
Brongersma (6).—Of S. Florida, **Duell-
man & Schwartz**.—Of the French
Antilles, note on commercial value,
Morice.—Choanal papillae, figs., **Par-
sons**.—Of Portugal, figs., **Pissarro**.—
On salt glands, **Schmidt-Nielsen &**
Fange.—General note, **Wermuth (7)**.—

C. c. caretta, Zoogeography of E. Canada, **Bleakney (1)**.—From Bermuda, **Mowbray & Caldwell**.—Nesting on Merritt Id., on range and food, **Neill (2)**.—On range limit, Maryland, Delaware, **Reed (1)**.—*C. c. gigas*, Of Guli-falu Id., Maldives, **Phillips**.

Carettochelys insculpta, Figd., of Dutch New Guinea, general note, **Brongersma (6)**.—Saltwater association, **Neill (2)**.

[*Chelodina*], Photograph, **Warham (1)**.—*C. sp.*, Of Dutch New Guinea, general notes, **Brongersma (6)**.—*C. longicollis*, Of N.S. Wales, **Adler (7)**.

Chelonia mydas, Figd., of Dutch New Guinea, general note, **Brongersma (6)**.—Of S. Florida, **Duellman & Schwartz**.—Notes on Semah ceremonies, Sarawak, **Harrison**.—Of Malaya and Sarawak, history, ecology, habits, reproduction, development, conservation, **Hendrickson**.—Of the French Antilles, as food for man, **Morice**.—Preliminary study in Gulf of Thailand, **Penyapol (1)**.—Of Thailand, distribution, breeding and embryological development, figs., **Penyapol (2)**.—Of Maldive Ids., **Phillips**.—On salt glands, **Schmidt-Nielsen & Fange**.—On normal and tumorous cells, **Stolk (4)**.—Of French N. Africa, descrip., general habits, etc., figs., **Villiers**.—General work on German fauna, col. plate, etc., **Wermuth (1)**.—General note, **Wermuth (7)**.—*C. m. agassizi*, *m. japonica*, *m. mydas*, Range, **Neill (2)**.—*C. mydas*, *depressa*, Choanal papillae, figs., **Parsons**.—*C. m. mydas*, From Bermuda, **Mowbray & Caldwell**.—Behaviour in captivity, **Parrish, F. K.**.—On range limits, Maryland, **Reed (1)**.

Chelydra osceola, Of S. Florida, **Duellman & Schwartz**.—On its status, **Richmond**.—*C. serpentina*, Of Kansas, Lyon Cnty., **Clarke, Breukelman & Andrews**.—Observations on prehensile use of tail, **Brode**.—In British Columbia, fig., **Carl & Guiguet**.—Of Arkansas, on geographic relations of Ozarkian reptiles, **Dowling (1)**.—On ranging movement, **Fitch (2)**.—On movements, **Mertens (7)**.—Sexual dimorphism, **Mosimann (3)**.—Relationship between habitat preferences of hatchlings and physical structure of vegetation, **Sexton**.—*C. s. serpentina*, Of Long Point, Ontario, **Adams & Clark**.—From Texas, and

albino with abnormal scutes from Ontario, **Adler (7)**.—Zoogeography of E. Canada, **Bleakney (1)**.—From Winton Cnty. and Delaware Cnty., new record Ohio, **Dennis (3)**.—Of Michigan, new county record, Jackson Cnty., **Hahn**.—On algal growth, *Basicladia* on shell, figs., **Proctor**.—*C. s. osceola*, On saltwater association on Merritt Id., Florida, **Neill (2)**.

Chelys, if any see under *Chelus*.

Chersine angulata, General article and notes on egg-laying, photographs, **W., M. A.**

Chrysemys d'orbigny, Effect of chemicals on oviduct, **Marques**.—Paper electrophoresis differences between serum, human, **Tondo**.—*C. picta*, †On postglacial dispersal, **Bleakney (4)**.—Of Kansas, Lyon Cnty., **Clarke, Breukelman & Andrews**.—Retractor penis muscle and potassium contracture in a variety of conditions, **Conway & Csapo**.—Iodide contracture in potassium treated penis muscle, **Curtis & Csapo**.—On movement range, **Fitch (2)**.—Saltwater associations, **Neill (2)**.—Abnormal scutes in carapace of Long Id., specimen, fig., **Sturn & Brattstrom**.—*C. p. picta*, Albino from Maryland, **Cooper (2)**.—*C. p. bellii*, On distribution in Manitoba, **Bird**.—On shell algal growth, **Proctor**.—*C. picta*, *marginata*, Analysis of allometry in shell, **Mosimann (1)**.—*C. p. picta*, *p. marginata*, Zoogeography of E. Canada, **Bleakney (1)**.—*C. p. marginata*, Of Long Point, Ontario, **Adams & Clark**.—From Ohio and Indiana, **Adler (7)**.—From Linking Cnty., a new county record, Ohio, **Dennis (2)**.—From Delaware Cnty., new county record, Ohio, **Dennis (3)**.—Of Michigan, new county, Jackson, record, **Hahn**.—*C. p. marginata*, *p. picta*, On intergradation, **Hartman**.

Cistudo orbicularis, Of the Balearic Ids., **Colom (1)**.

Claudinus angustatus, First record from Guatemala, Tikal, El Peten, **Stuart**.

Clemmys caspica, In E. France, general, **Germaine**.—*C. c. leprosa*, From Spain; Tunisia; *c. rivulata*, from Israel; Bulgaria, *insculpta*, from Pennsylvania, *muhlenbergii* from New Jersey, **Adler (7)**.—*C. c. leprosa*, From Morocco, Ifrane region, **Bons**.—Of French N.

Africa, figs., syst., general statistics, etc., **Villiers**.—*C. guttata*, Of Long Point, Ontario, **Adams & Clark**.—and *insculpta*, Zoogeography of E. Canada, **Bleakney** (1).—*C. guttata*, From Cuyahoga Cnty., Ohio, **McMahon**.—and *marmorata*, Saltwater associations, **Neill** (2).—On shell algal growth, **Proctor**.—*C. insculpta*, On archaeological sites in Canada, **Bleakney** (2).—In captivity, note on egg laying, **Clement**.—No evidence of natural population in Delmarva Peninsula, **Conant** (2).—Of Piedmont, Delmarva, **Reed** (2).—*C. leprosa*, From Cota Doñana, Spain, **Mountfort**.—In Minorca, **Sacchi**.—Of Morocco, fig., **Varaldi**.

Colpochelys kemp, Note, **Pissarro**.

Cyclanorbis, Of French N. Africa, descrip., general habits, etc., key to *elegans*, *senegalensis* (figs.), **Villiers**.

Cycloderma aubryi, Of French N. Africa, descrip., general habits, etc., figs., **Villiers**.

Deirochelys reticularia, On saltwater association on Merritt Id., Florida, **Neill** (2).—On shell algal growth, **Proctor**.—*D. r. chrysea*, Of S. Florida, **Duellman & Schwartz**.

[*Dermatemys mawii*], On 'imported' specimen into Uaxatún, El Peten, Guatemala, **Stuart**.

[*Dermochelys coriacea*], From Vinal Haven, Gulf of Maine, ♂, Total lgth. 209 cm., weight, 635 lbs., **Ray & Coates**.—*D. coriacea*.—On reports off Dutch New Guinea, **Brongersma** (6).—Of S. Florida, **Duellman & Schwartz**.—Of the French Antilles, **Morice**.—Range, food etc., **Neill** (2).—Of Hululé, Maldive Ids., **Phillips**.—Of Portugal, **Pissarro**.—On range limits, Maryland, Delmarva, **Reed** (1).—Of French N. Africa, descrip., general notes, figs., **Villiers**.—General notes, **Wermuth** (7).—*D. c. coriacea*, Zoogeography of E. Canada, **Bleakney** (1).—On nesting beaches and visits to Florida beaches, figs., **Caldwell**.—From Bermuda, **Mowbray & Caldwell**.

Emydoidea blandingi, Of Long Point, Ontario, **Adams & Clark**.

Emydura inspectata Glauert is a synonym of *Pseudemydura umbrina* Sieb., **Williams, E. E.**—*E. subglobosa*, Figd., *novae-guineae*, of Dutch New Guinea, general notes, **Brongersma** (6).

Emys, Saltwater association, **Neill** (2).

Emys blandingii, Of Ohio, **Adler** (7).—Zoogeography of E. Canada, **Bleakney** (1).—On archaeological sites in Canada, **Bleakney** (2).—X-ray diffraction of egg-shells, **Foulkes & Schuknecht**.—On shell algal growth, **Proctor**.

Emys leprosa, Action of gonadotrophine chroionique on the testes, **Combescot**.—Sex reversal action of diethylstilboestral on gonads, **Vivien & Stefan**.

Emys orbicularis, From Morocco, Ifrane region, **Bons**.—On thermoregulation, **Cherchi** (6).—Of Germany, general work, photograph, **Frommhold**.—Of E. France, general, **Germaine**.—On necrosis of shell and algal growth, **Hunt** (1).—On presence in Poland, geographic range chart, etc., **Młynarski**.—From Cota Doñana, Spain, **Mountfort**.—In Morocco, **Pasteur & Bons**.—Effect of X-ray, **Pézar**.—Of Transcaucasica, **Rotter** (1).—(†) On origin in Roumania, **Stugren**.—General work on German fauna, col. plate, etc., **Wermuth** (1).—*E. o. orbicularis*, Of Hungary Pilis, some nature notes, **Szabó**.—Recorded Vol. 94 (1957), erroneously from Czechoslovakia, should read as, Sloveuia, Yugoslavia, **Brelj, S.**

Eretmochelys imbricata, Figd., Of Dutch New Guinea, general note, **Brongersma** (6).—Of S. Florida, **Duellman & Schwartz**.—Of the French Antilles, on commercial value, **Morice**.—Choanal papillae, **Parsons**.—Preliminary study in Gulf of Thailand, **Penyapol** (1).—Of Thailand, distribution, breeding and embryological development, figs., **Penyapol** (2).—Of Malé, Maldives, **Phillips**.—Note, **Pissarro**.—Of French N. Africa, descrip., general habits, etc., figs., **Villiers**.—General notes, figs., **Wermuth** (7).—*E. i. imbricata*, From Bermuda, **Mowbray & Caldwell**.—Behaviour in captivity, **Parrish, F. K.**—and *i. squamata*, Range, food, **Neill** (2).

Geochelone pardalis babcocki, Of S. Kenya, **Adler** (7).

Geoclemys reevesii, In Kyoto, Japan, **Fukada** (2).

[*Geomyda areolata*], From Uaxactún burial urn, Guatemala, **Stuart**.—*G. pulcherrima pulcherrima*, *rubida* peri-

xantha, Distribution in Colima and W. Mexico, **Duellman (3)**.—*G. p. pulcherrima*, First record for Jalisco, Mexico, **Smith, H. M. & Grant (5)**.—*G. r. rubida*, On feeding habits in captivity, **Beltz**.—*G. rubida, pulcherrima, areolata*, Remarks on clinal concept and taxonomy, **Mosiman (3)**.—*G. triguga*, Plasma proteins, **Nair**.—*G. t. thermalis*, On saltwater association, **Neill (2)**.

Gopherus, on eating habits in captivity, *agassizi, berlandieri*, **Beltz**.—*G. agassizi*, Of Arizona, 'S. California', *berlandieri*, Mexico, *polyphemus*, of Florida, **Adler (7)**.—*G. agassizi*, Development of eggs and young, **Booth**.—*G. polyphemus*, Notes on the eggs and young of Florida, figs., **Arata**.—Of S. Florida, **Duellman & Schwartz**.—and *berlandieri*, Saltwater association, **Neill (2)**.

Graptemys geographica, Of Long Point, Ontario, **Adams & Clark**.—Zoogeography of E. Canada, **Bleakney (1)**.—Sighted in Delaware Cnty., Ohio, **Dennis (3)**.—Of Madison and Delaware Cnties., Ohio, **Dennis (4)**.—Analysis of allometry in shell, **Mosimann (1)**.—and of Indiana, *pseudogeographica pseudogeographica*, of Indiana, **Adler (7)**.—*G. kohni, pseudogeographica*, Of Kansas, Lyon Cnty., **Clarke, Breukelman & Andrews**.—*G. nigrinoda, kohni, pseudogeographica ouachitensis*, Experiments of population density in Alabama, **Tinkle (2)**.—*G. pseudogeographica*, Of Arkansas, on geographic relations of Ozarkian reptiles, **Dowling (1)**.—On shell algal growth, **Proctor**.—*G. p. ouachitensis*, On specimen of Oklahoma with distorted shell, fig., **Carpenter (2)**.—*G. pulchra, oculifera*, On water-approach behaviour of young, **Anderson**.

Hardella thurgii, Of Bihar, **Acharji**.

Homopus areolatus, Of Port Elizabeth, **Adler (7)**.

Hydromedusa maximiliani, Of Brazil, **Adler (7)**.

Kachuga dhongoka, kachuga, Of Bihar, **Acharji**.—*K. tectum*, subsp., **Adler (7)**.

Kinixys, Of French N. Africa, key to species, syst., general habits, etc., *erosa*, figs.; *homeana*, figs., (*Cinnothorax*) *belliana belliana*, *b. nogueyi*, figs., **Villiers**.—*K. b. belliana, b. nogueyi, homeana*, On feeding habits in captivity, **Beltz**.—*K. b. mertensi*, From Uele,

Belgian Congo, **Laurent**.—*K. erosa*, From Liberia, **Taylor & Weyer**.—*K. homeana*, Of Belgian Congo, **Adler (7)**.

Kinosternon, Of S. Florida, *b. bauri, b. palmarum, subrubrum steindachneri*, **Duellman & Schwartz**.—*K. bauri, palmarum, subrubrum steindachneri, s. hippocrepis*, On saltwater association, Florida, and Texas, **Neill (2)**.—*K. flavescens*, Of Kansas, Lyon Cnty., **Clarke, Breukelman & Andrews**.—*K. f. flavescens*, From Oklahoma, **Adler (7)**.—and *subrubrum hippocrepis*, On shell algal growth, **Proctor**.—*K. f. stejnegeri*, From Arizona and Mexico; *f. spooneri*, from Illinois; *f. flavescens*, from Arizona and Western U.S.A., **Smith, P. W. & Hensley (1)**.—*K. herzeri*, From Puebla, Mexico, photographs, **Poglayen & Smith**.—*K. integrum*, Distribution in Colima and W. Mexico, **Duellman (3)**.—*K. leucostomum*, From Guatemala, Uaxactún-Tikal area, Peten, **Stuart**.—*K. scorpioides seriei*, Notes on validity, **Hellmich (1)**.—*K. sonoriense*, From Santa Cruz Co., *flavescens* subsp., from Pima Co., Arizona, **Williams & Chrapliwy**.

Lepidochelys, Choanal papillae, **Parsons**.—Notes on the zoogeography, *kempii, olivacea*, **Carr**.—Of French N. Africa, descrip., general habits, etc., key to *olivacea olivacea*, figs., *o. kempii*, **Villiers**.—*L. kempii*, On life history, nesting season; may be endemic to the Gulf of Mexico; records for the Atlantic coast of N. America, Bermuda and Europe are probably based on stragglers lost to the Gulf Stream from the Gulf, **Carr & Caldwell**.—First record from Bermuda, **Mowbray & Caldwell**.—Behaviour in captivity, **Parrish, F. K.**.—*L. olivacea*, Probably present in New Guinea area, **Brongersma (6)**.—Northward range extended, 800 miles, Table Bluff, Humboldt Cnty., California, **Houck & Joseph**.—General note, **Wermuth (7)**.—*L. o. kempii*, Zoogeography of E. Canada, **Bleakney (1)**.—Of S. Florida, **Duellman & Schwartz**.—and *o. remivaga, o. olivacea*, Range, food, etc., **Neill (2)**.—*L. (olivacea) kempii*, On range limit, Maryland, **Reed (1)**.

Lissemys punctata, Musculature of hind limb, figs., **George & Shah**.—Plasma proteins, **Nair**.—*L. p. granosa*, From W. Bengal, **Acharji**.

Macrochelys temminckii, From Louisiana, **Adler** (7).—Observations on prehensile use of tail, **Brode**.—Of Arkansas, on geographic relations of Ozarkian reptiles, **Dowling** (1).—Saltwater association in Alabama, **Neill** (2).—On shell algal growth, **Proctor**.

Macroclemys see under *Macrochelys*.

Malaclemys, Of S. Florida, *terrapin macrospilota*, *t. rhizophorarum*, *t. tequesta*, **Duellman & Schwartz**.—*M. centrata concentrica*, On range limit, Maryland, Delmarva, **Reed** (1).—*M. terrapin*, On saltwater association, Florida, **Neill** (2).—On shell algal growth, **Proctor**.—On salt glands, **Schmidt-Nielsen & Fange**.

Malacochersus tornieri, On movements, photographs, **Mertens** (7).

Malayemys subtrijuga, In terrarium fig., **Anon.** (2).

Mesoclemmys gibba, Of N.S. America, **Adler** (7).

Noetestudo angulata, On specimen with a double gular of Buffalo Bay, near Knysna, **Cairncross**.

Nicoria trijuga thermalis, Of Maldive Ids., **Phillips**.

Pelochelys bibroni, Saltwater association, **Neill** (2).

Pelomedusa subrufa olivacea, Of French N. Africa, descrip., general habits, etc., figs., **Villiers**.

Pelusios, Of French N. Africa, descrip., general habits, etc., key to species, *subniger* (figs.), *niger* (figs.), *adamsoni* (figs.), *gabonensis* (figs.), **Villiers**.—*P. nanus*, From Kasai, Belgian Congo, **Laurent**.—*P. subniger*, Of Nigeria, **Adler** (7).

Phrynops (Batrachemys) dahli, **sp. nov.**, type loc. vicinity of Sincelejo, Bolivar, Colombia, **Bull. Mus. comp. Zool. Harv.**, 119 (5), 1958, p. 376; skull fig., 2 photographs, **Zangerl & Medem**.—*P. geoffroana tuberosa*, Of Brazil, **Adler** (7).

Platemys platycephala, radiolata, Of Brazil, **Adler** (7).

Platysternon megacephalum, Of Thailand, photograph, **Taylor & Elbel**.—General notes, in captivity, 6 figures, **Wermuth** (6).

Podocnemis, On saltwater association, **Neill** (2).—*P. sextuberculata, unifilis*, of Colombia. Of Colombia, **Adler** (7).

Psammobates oculifera, Of Bechuana-land, *tentorius trimeni*, of Cape Prov., **Adler** (7).

Pseudemys dura umbrina, Re-described and compared with *Emydura inspectata*, which becomes a synonym, plates, **Williams, E. E.**

Pseudemys, Of S. Florida, *floridana peninsularis, nelsoni*, **Duellman & Schwartz**.—On saltwater associations, species noted, **Neill** (2).—*P. dorbignii*, An abnormal carapace, fig., **Adler** (4).—Of Brazil, *scripta troostii*, of Indiana, **Adler** (7).—*P. floridana, scripta*, Of Kansas, Lyon Cnty., **Clarke, Breukelman & Andrews**.—Of Arkansas, on geographic relations of Ozarkian reptiles, **Dowling** (1).—*P. f. concinna*, On range limit, Maryland, **Reed** (1).—*P. s. scripta*, From Florida caves, **Holman**.—and *s. elegans*, Experiments of population density in Alabama, **Tinkle** (2).—*P. s. elegans*, Method of obtaining blood from anesthetized specimens, **Gandal**.—On movements, **Mertens** (7).—and *floridana hoyi*, On shell algal growth, **Proctor**.—*P. s. ornata*, From Guatemala, Tikal, Peten, **Stuart**.

Pseudotestudo kleinmanni, Of Salum, Egypt, **Adler** (7).

Sternothaerus carinatus complex, The systematics, ecology, *minor peltifer*, figs., *m. minor*, figs., *odoratus, depressus*, key to species, **Tinkle** (1).—*S. minor peltifer, odoratus*, Experiments of population density in Alabama, **Tinkle** (2).—*S. odoratus*, From Indiana, **Adler** (7).—Zoogeography of E. Canada, **Bleakney** (1).—Of Arkansas, on geographic relations of Ozarkian reptiles, **Dowling** (1).—Of S. Florida, **Duellman & Schwartz**.—From Cuyahoga Cnty., Ohio, **McMahon**.—Analysis of allometry in shell, **Mosimann** (1).—Saltwater association in Texas, **Neill** (2).—and, *c. carinatus*, On shell algal growth, **Proctor**.

Terrapene carolina, On archaeological sites in Canada, **Bleakney** (2).—Of Arkansas, on geographic relations of Ozarkian reptiles, **Dowling** (1).—Remains in New Paris sink holes, Pennsylvania, **Guilday & Bender**.—Used in

study of the evolutionary significance of rare matings, **Mosiman** (2).—Salt-water association, **Neill** (2).—Case of total regeneration of carapace, figures, **Smith, H. M.** (3).—and *ornata*, On movement range, **Fitch** (2).—*T. c. carolina*, Of Ohio, *c. bauri*, Of Florida; *C. triunguis*, Of Oklahoma, *ornata ornata*, Of Oklahoma, Indiana, Arizona, **Adler** (7).—*T. c. carolina*, Factors affecting blood formation, **Altland & Thompson**.—and *c. triunguis, o. ornata*, On feeding habits in captivity, **Beltz**.—*T. c. carolina*, Of Knox and Miami Cnties., Ohio, **Dennis** (4).—*T. c. bauri*, Of S. Florida, **Duellman & Schwartz**.—*T. c. carolina*, Method of obtaining blood from anesthetized specimens, **Gandal**.—*T. c. bauri*, Coital movement patterns of male pairing with female *T. c. triunguis*, **Lin**.—*T. c. triunguis*, On twins, from Arkansas, photograph, **Crooks & Smith**.—*T. mexicana*, Of Gomez Farias Region, Tamaulipas, biogeography, *mexicana* should probably be considered conspecific with *carolina*, **Martin, P. S.**—*T. ornata*, Of Kansas, Lyon Cnty., **Clarke, Brukelman & Andrews**.—and *carolina*, On extra-uterine migration of ova, **Legler**.—*T. o. luteola*, From Arizona, Cochise Co., **Williams & Chrapliwy**.

Testudo, On saltwater association, **Neill** (2).—On food and pests, *graeca*, *horsfieldi*, *elephantopus*, **Klemm, M.**

Testudo chilensis, Of Buenos Ayres, **Adler** (7).

Testudo denticulata, Of S. America, **Adler** (7).—On eating dog feces, **Beltz**.

Testudo elegans, Of India and Ceylon, **Adler** (7).—On feeding habits in captivity, **Beltz**.

Testudo e. elephantopus (microphyes), On eating berries, **Beltz**.

Testudo galapagoensis, Breeding in San Diego, figs., **Staedeli**.

Testudo gigantea, On captive eating berries, **Beltz**.

Testudo graeca, On status and nomenclature in S.W. Asia (Syria and Israel), and N. Africa, *T. g. terrestris*, (figs.) synonyms are: *T. zolkafa* Gray, *zohalfa*, D. and B., *floweri*, Bodenb., *g. floweri*, Mertens, **Wermuth** (2).—Action of electrical current on the eye, **Gonella & Cornu**.—On movements, **Mertens** (7).—

From Cota Doñana, Spain, fig., **Mountfort**.—Nervous system of intestines, **Pera**.—Effect of X-ray, **Pezard**.—Experiments on the heart, **Rybak**.—On the pancreas, figs., histophysial, **Saviano & Girolamo**.—Electromicroscopic study of kidney, figs., **Thiel**.—Of Morocco, fig., **Varaldi**.—(†) On Origin in Roumania, **Stugren**.—On epimorphic regeneration during hibernation, **Hunt, T. J.** (4).

T. g. graeca, From Morocco, Ifrane region, **Bons**.—and *g. ibera*, **Adler** (7).—= *ibera*, Fertile eggs found at Bordeaux, **Bounhiol & Lahargue**.

Testudo hermanni, On records in Normandy, **Arnoult**.—Fertile eggs found at Bordeaux, **Bounhiol & Lahargue**.—(†) On origin in Roumania, **Stugren**.—On overwintering, photographs, **Hediger**.—Micro-variation of temperature, **Cherchi, Holzer, Scortecchi & Serrato**.—*T. h. hermanni*, Of Yugoslavia, **Adler** (7).—On feeding habits in captivity, **Beltz**.—Influence on behaviour by light and soil, **Hunt** (3).—and *h. robertmertensi*, Of the Balearic Ids., figs., **Colom** (1).

Testudo horsfieldii, Of Afghanistan, **Adler** (7).—Neomycin, acromycin and their administration in treatment of respiratory ailment, **Metzger**.—On normal and tumorous cells, **Stolk** (4).

Testudo ibera, On the blood, **Girod & Lefranc**.—On movements, **Mertens** (7).

†*Testudo kegenica*, spec. nov., upper course river Kegen, ridge Chuladir Kazakhstan SSR, Alura-Atiu prov. Kegen reg., Mat. Faun. Flor. Kazck. 2 1958: 51, fig., **Khozakhy** (1).—On some peculiarities in the age, **Bazhanov & Pigulevski**.

Testudo pardalis babcocki, Observations on the development of markings, **Benzien** (1).

Testudo radiata, On eating canine feces, **Beltz**.

Testudo (Geochelone) sulcata, Of French N. Africa, syst., general habits, etc., figs., **Villiers**.

Trionyx cartilagineus, Saltwater association, **Neill** (2).

Trionyx ferox, Not collected in 1956 at Long Point, Ontario, **Adams & Clark**.—Of Kansas, Lyon Cnty., **Clarke, Brukelman & Andrews**.—Of S. Florida,

Duellman & Schwartz.—*Trionyx ferox*, Of Arkansas, on geographic relations of Ozarkian reptiles, **Dowling** (1).—*A. f. ferox*, On saltwater association on Merritt Id., Florida, **Neill** (2).—*T. f. aspera*, Of Louisiana, *f. spinifera*, Of 'S. Ohio R.', and Wisconsin, **Adler** (7).—*T. f. spinifera*, Zoogeography of E. Canada, **Bleakney** (1).—Sighted in Delaware Cnty., Ohio, **Dennis** (3).—Of Delaware Cnty., Ohio, **Dennis** (4).—From Cuyahoga Cnty., Ohio, **McMahon**.—*T. (Amyda) ferox hartwegi*, On shell algal growth, **Proctor**.

Amyda leithi, The hyoid and associated structures, figs., **Sondhi**.

Trionyx muticus, On water-approach behaviour of young, **Anderson**.—Of Arkansas, geographic relations of Ozarkian reptiles, **Dowling** (1).

Trionyx sinensis, On distribution in Pacific Ids., zoogeography, **Brown, W. C.**

Trionyx triunguis, Of French N. Africa, descrip., general habits, etc., figs., **Villiers**.

†ICHNITES

Nature of *Otouphepus* and *Brontozoum* discussed.—Fossil reptilean prints from Trias of New Jersey, **Baird**.

